The Quality of Arizona Irrigation Waters

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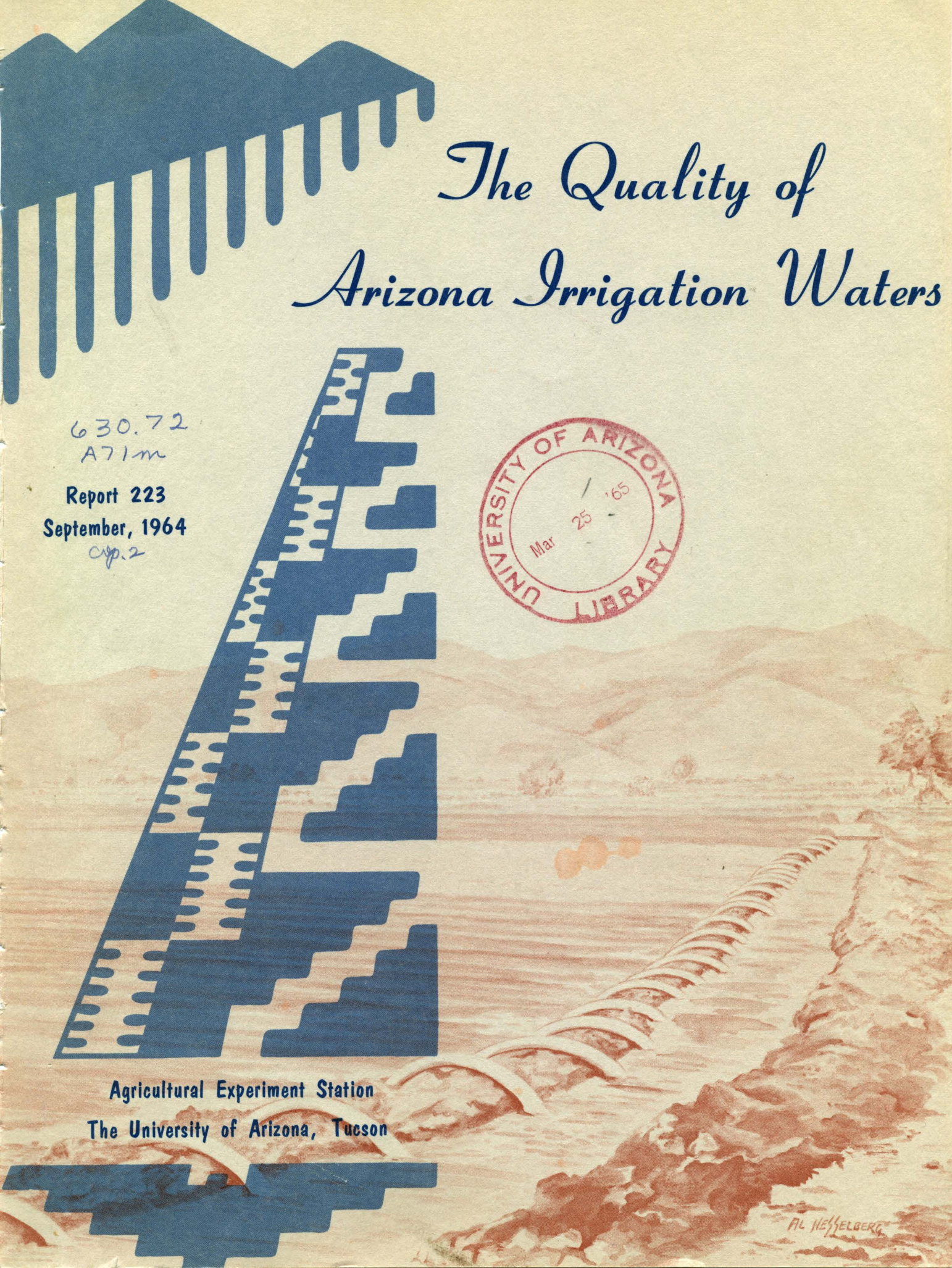

THE QUALITY OF ARIZONA IRRIGATION WATERS

by

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ACKNOWLEDGEMENTS

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to $Na\% = \frac{Epm\ Na^{+}}{Epm\ Ca^{++} + epm\ Mg^{++} + epm\ Na^{+}} \times 100$

P. 15 Line 10. From bottom, change from "drawn" to "drawdown".

P. 23 Line 10. Right-hand half of page, Casa Grande, change "Gay Gilbert" to "Guy Gilbert".

P. 26 Line 21. Right-hand half of page, change "San Simone" to "San Simon".

P. 33 Line 18. T.4 N R.2 E Sec. 6 Deer Valley, change "H. L. Vonn" to "H. L. Voss".

P. 33 Line 19. T.4 N R.2 E Sec. 7 Deer Valley, change "Cr. F. H. Pilcher" to "Dr. F. H. Pilcher".

P. 43 Line 3. From bottom, T.2 N R.1 W. Sec. 24 Lab. No. C6841, change "EC x 10^3 5.0"

to "EC x 10^3 0.5".

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QUALITY OF ARIZONA IRRIGATION WATERS

INTRODUCTION

Water is the most critical factor in the economy of Arizona's agricultural industry. Many thousands of acres of land capable of high productivity remain virgin because of the lack of sufficient water. For those million and a quarter acres of land now under irrigation management, the quality as well as the quantity of water must be considered together if the best use is to be made of the available supply.

The quality of both surface and underground water in Arizona, for the most part, is good. However, the necessary use of large amounts of water under the arid and semiarid climatic conditions of Arizona requires careful attention to quality which would be of little consequence under temperate climates. The high rate of water evaporation from soil surfaces accompanied by capillary rise of salts, the high evapotranspiration-demand by plants and the low extent of downward leaching by the scarce precipitation, accentuates the tendency for salts to accumulate in the root feeding zone of the soil. On the other hand, over irrigation may result in the development of a water table so close to the surface as to allow salts to rise to the surface by capillary movement of water and to deposit on the surface in concentrations detrimental to plants (10). Accumulation of water just below the effective root zone as well as within the root zone because of poor drainage, will encourage salt accumulation and eventually make the soil so saline it cannot support crop growth.

The calculated salt content of good water such as that of the Colorado River is approximately one ton per acre foot (735 ppm). Considering that most crops in the irrigated valleys of Arizona require 2 1/2 to 6 acre feet for economic crop production, one can readily understand that control of salt concentration in soil and water management is imperative to the survival of a permanent agriculture.

Salt-sensitive plants may grow satisfactorily if irrigated with water of low salt content, yet fail to yield satisfactorily or not at all, if irrigated with water high in salts. Other plants which are salt tolerant will produce satisfactorily when irrigated with water which would inhibit growth of salt-sensitive plants.

The many different kinds of salts found in waters used for irrigation do not affect plants the same way. Certain elements, such as boron, lithium and chloride, have direct as well as indirect adverse effects on plants in relatively small concentrations. Even though their concentrations in water may be small, their accumulation, if allowed, can become so detrimental to plants that crop production is reduced; leaves turn yellow, blotched and brown. Further accumulations may exceed the critical level for the specific crop grown, causing progressive die-back until the whole plant succumbs.

REVIEW OF SELECTED LITERATURE

Historical

In Arizona Agricultural Experiment Station Bulletin No. 1, issued December 1, 1890, the first director, F. A. Gulley reported: "As soon as the chemical laboratory is equipped which will be about the last of January (1891), we shall begin an examination of the waters of the several streams and the wells in the Territory used for irrigation." (12). The University of Arizona has continued this early recognition of the importance of water quality by the permanent establishment of a testing laboratory in the Department of Agricultural Chemistry and Soils and continued water-quality research. That interest has been sustained at a high level over these many years is shown by the publications which have come at frequent intervals, (5, 8, 9, 19, 22, 23, 24, 25, 26, 27, 28).

Specific Ion Effect

The direct effect of the concentration of salt in the water is not the sole factor affecting water quality. The influence of specific elements on plant growth and vigor is very complex and at times difficult to understand (1, 6). Some plants are selective in the amount of sodium they will absorb. Others cannot avoid absorbing excessive amounts of sodium if it is unfavorably high in proportion to calcium. McGeorge and Breazeale (17) reported in 1938 that sodium has an indirect adverse effect on plant growth and yield of certain field crops. They, as well as the staff at the U. S. Salinity Laboratory, contend that when the sodium exceeds a certain level, approximately 15 percent of the cation exchange capacity in a soil, the physical condition of the soil deteriorates and plant growth is seriously inhibited.

Kelley (14), one of the early proponents of the importance of a favorable calcium to sodium ratio in waters, stated that, "If the Na percentage in water, or in the resulting soil solution, is 75 or more, cation exchange will inevitably take place to some extent, and if the total concentration in the soil also becomes high, cation exchange may result in excessive adsorption of Na^+."

Perhaps more representative of what is meant by specific ion effect is that of the detrimental effect to plant growth of relatively low concentrations of boron, bicarbonate and lithium. The chloride ion also has been shown to have an adverse effect on two crops, citrus and avocado, at concentrations well below tolerances of other crops. Many factors influence the tolerance level of these ions to plants. External effects of: (a) climate--temperature, relative humidity of the air, quantity and quality of light received, (b) soil conditions such as--texture, structure, organic matter, moisture, level, quantity and quality of salts in the soil solution, and (c) the specific crop involved, all influence the level of the specific ion in irrigation water that the plant will tolerate before its growth is adversely affected.

Water, Soil, and Crop Management

Water management: A knowledge of water quality has been shown to be helpful to the maintenance of a permanent irrigation agriculture, since excessive

accumulation of salts in soils is difficult to prevent even under favorable farming conditions (10). Good water management practice is necessary for the maintenance of high crop production. It is recognized that what may be a good water management practice with a certain quality of water will not necessarily be good with a water of a different quality. As a general principle, the greater the salt content of irrigation water, the greater the quantity that must be used and the wetter the soil must be maintained to prevent loss of crop production because of high osmotic tension in the plant root zone. Further complications arise from the fact that some crop species which are salt tolerant during latter stages of growth may be sensitive to salinity during germination. Thus yields may be adversely affected by failure to obtain a satisfactory stand.

Soil management: Water quality also influences the selection of proper soil management. For example, it is more important that special tillage practices be employed on a fine-textured soil supplied with water of high salt content than with water of low salt content. On the other hand, a coarse or sandy soil irrigated with salty water often does not require special tillage practices to insure deep penetration of the water to move salts downward that otherwise might accumulate within the root zone and reduce crop growth. The quality of water available for irrigation also determines the kind of bed shape for row crops to provide suitable placement areas for seeds to remain free from the damaging effect of excessive salts that tend to concentrate on the crown of ridges (10). McGeorge and Wharton made similar observations in Arizona even as early as 1936 (18).

Crop management: Seed placement, amount and kind of seed used, and the kind of crops grown vary with the quality of the irrigation water. Certain crops such as barley, bermuda grass and garden beets, for example, will tolerate more salt than wheat, sweet clover, and cantaloupe. Crops such as red and alsike clover, celery, radish, and lemon, grapefruit and orange have a low salt tolerance according to research originating at the U. S. Salinity Laboratory in Riverside, California (20). Thus the whole farm program, under arid and semiarid climates where irrigation farming is practiced, must involve water quality as a prime factor in economic crop production.

Factors Determining Water Quality

Research at the U. S. Salinity Laboratory (20) indicates that among the most important factors determining water quality are:

1. Total concentration of soluble salts.
2. Relative proportion of sodium to other cations.
3. Concentration of boron or other elements that may be toxic in relatively small amounts.
4. The bicarbonate concentration as related to the concentration of calcium plus magnesium.

Lithium has also been found to be toxic when present in small concentrations in water (1,3).

Total dissolved solids: Satisfactory results usually are obtained by use of waters having conductivity values of less than 750 micromhos/cm. (0.750 millimhos/cm.) if good farming practices are used. Waters in the conductivity range of 750 to 2,250 micromhos (0.75 to 2.25 millimhos/cm.) may be used satisfactorily, provided good management is practiced, internal drainage of the soil is good, and salt-sensitive crops are avoided.

Richards (20) states that most irrigation waters which have been used successfully for a period of years have conductivity values of less than 2,250 micromhos/cm. (2.25 millimhos/cm.) Waters having higher conductivity values may be used occasionally, but unless drainage is exceptionally good and sufficient water is available for leaching purposes, disappointing results may be expected. When used as the sole source of water, even with good farming practices, crop yields may be adversely affected.

Proportion of sodium to other cations: Sodium hazard may be expressed in terms of soluble-sodium-percentage by use of the equation:

$$SSP = \frac{Na^{+}}{Na^{+} + Ca^{++} + Mg^{++}} \times 100$$

or by the sodium-adsorption-ratio (SAR) in terms of ion equivalents from the equation:

$$SAR = \frac{Na^{+}}{\sqrt{\frac{Ca^{++} + Mg^{++}}{2}}}$$

This ratio when applied to irrigation waters is used to express the relative activity of sodium ions in exchange reactions with the soil. It is used as an index of the sodium hazard of an irrigation water. A nomogram, Fig. 1, is provided (20) for the classification of irrigation waters according to the SAR values.

Boron: Boron, like some other nutrients is essential for normal plant growth in low concentrations, but is toxic if present in high concentrations. In 1936 Scofield published "Permissible limits of boron for several classes of irrigation waters," (21), Table 1, while a year earlier Eaton (6) and others (20) established the relative tolerance of plants to boron. A selected few are listed in Table 2. Citrus was found to be the most sensitive and tamarix, asparagus, and palms to be the most tolerant. A wide variety of plant species was placed in the semitolerant group. In 1949, Smith (24) established areas in Arizona where boron toxicity existed as a factor in Arizona's agriculture. Included in this bulletin were 323 boron analyses of waters from various parts

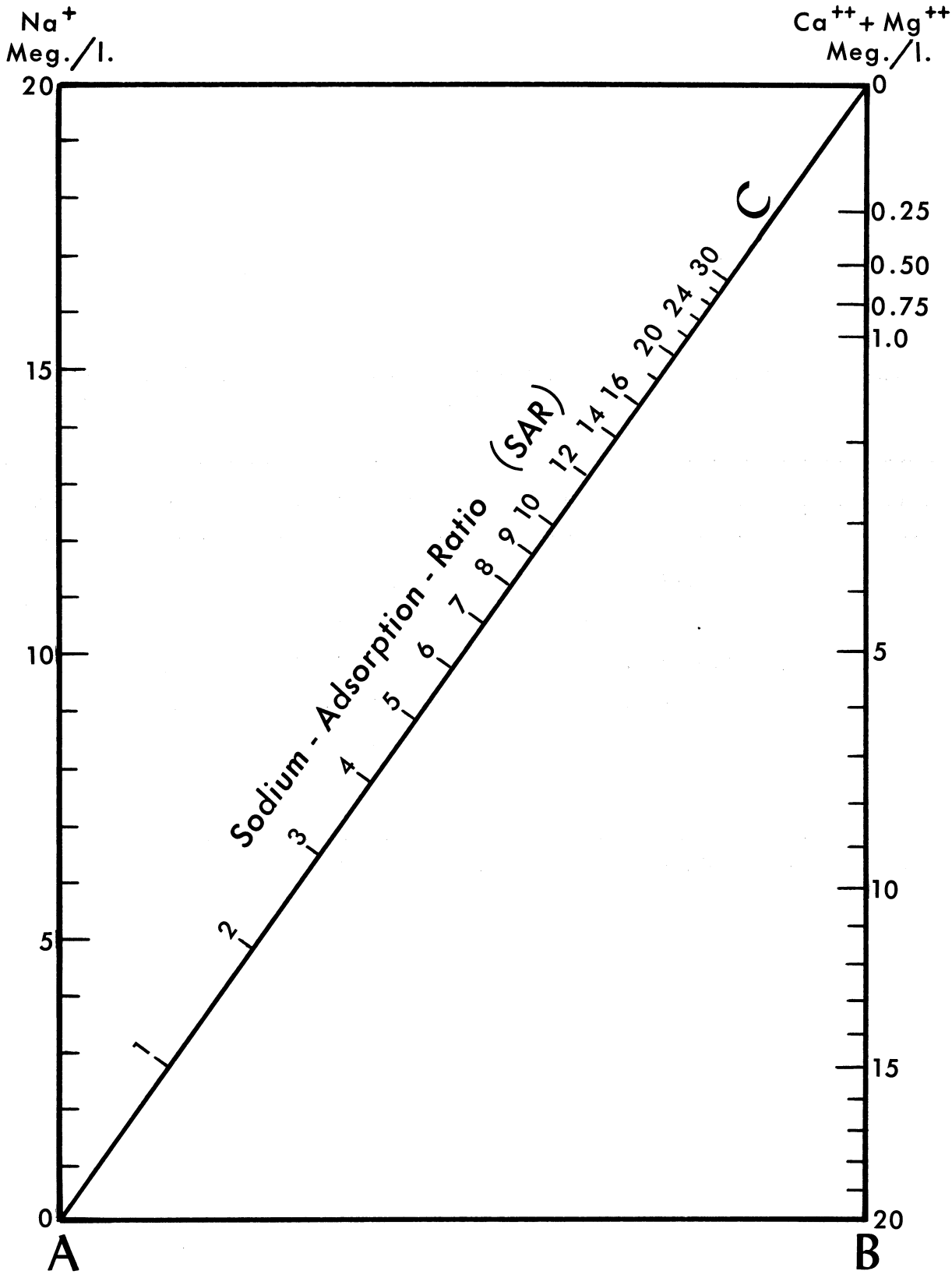


Figure 1 *Nomogram for determining the SAR value of irrigation waters.*

Table 1. Permissible limits of boron for several classes of irrigation waters.

Boron class	Sensitive crops	Semitolerant crops	Tolerant crops
	P.P.M.	P.P.M.	P.P.M.
1	0.33	0.67	1.00
2	0.33 to 0.67	0.67 to 1.33	1.00 to 2.00
3	0.67 to 1.00	1.33 to 2.00	2.00 to 3.00
4	1.00 to 1.25	2.00 to 2.50	3.00 to 3.75
	1.25	2.50	3.75

From Table 14, USDA, Agricultural Handbook No. 60., p. 81, 1954 (20).

Table 2. Relative tolerance of plants to boron.

Tolerant	Semitolerant	Sensitive
Tamarix	Sunflower	Pecan
Palm	Potato	Walnut
Sugar beet	Cotton	Navy bean
Alfalfa	Tomato	American elm
Cabbage	Radish	Plum
Lettuce	Olive	Pear
Carrot	Barley	Apple
	Corn	Cherry
	Lima bean	Peach
		Orange
		Grapefruit
		Lemon

From Table 9, USDA Agricultural Handbook No. 60, p. 67, 1954 (20).

of the state. He stated that lemons could not tolerate more than 0.5 ppm of boron but that alfalfa could tolerate up to 3.0 ppm. The boron content of Arizona waters has been compiled to 1963 and is presented in Table 3 and Figure 2.

In general, the plants at the bottom of each column are more sensitive to boron than those higher in the list.

Bicarbonates: Waters which carry high concentrations of bicarbonate ions have a tendency to lose calcium carbonate by precipitation as a relatively insoluble compound. This increases the proportion of sodium to calcium and magnesium present, thus increasing the sodium hazard of the water. Eaton in 1950 set the following limits for the use of bicarbonate waters, Table 4, (7).

Lithium: The extreme sensitivity of citrus to small concentrations of lithium was first reported in 1929 by Haas (13) though very little was done to evaluate the extent of such toxicity until Aldrich, Vanselow and Bradford (1), in 1951, reported appreciable levels of lithium in citrus leaves and irrigation waters fairly widespread in California. Recently, a problem area of lithium waters for citrus and grapes was found in Arizona.

The lithium content of 16 wells near Dateland ranged from 0.08 ppm to 0.35 ppm. The lithium concentration of grape leaves from vines irrigated with these waters in 1963 ranged from 1.0 to 18.0 ppm lithium in May and from 18.0 to 28.0 ppm in July. Citrus leaves samples in July 1963, showed high lithium values--all exceeding 30 ppm. The normal lithium content of citrus leaves is about 5.0 ppm. Citrus leaf injury at some California locations appears when leaves accumulate about 130 ppm of lithium. It should be cautioned that the concentration level of lithium necessary to induce adverse effects in plants is likely to vary from one location to another as well as one plant species to another. Since the lithium content of leaves increases with the age of the leaf, care must be observed to collect samples of comparable age for analysis. Considerable amount of research must be completed before detrimental levels of lithium can be ascertained in Arizona waters. There is good evidence to indicate, however, that lithium is not a serious problem in Arizona with out present cropping system.

METHODS OF ANALYSIS

A brief resumé of laboratory methods follows:

Calcium and Magnesium	Titrated with versenate.
Sodium	Calculated. (Meq/l Cl^-, SO_4^{--}, CO_3^{--}, HCO_3^-, NO_3^-) - (Meq/l Ca^{++} + Mg^{++}) = Meq/l Na^+. Meq/l Na^+ X 23 = ppm Na^+.
Chloride	Titrated with standard silver nitrate using 5% potassium chromate solution as an indicator.

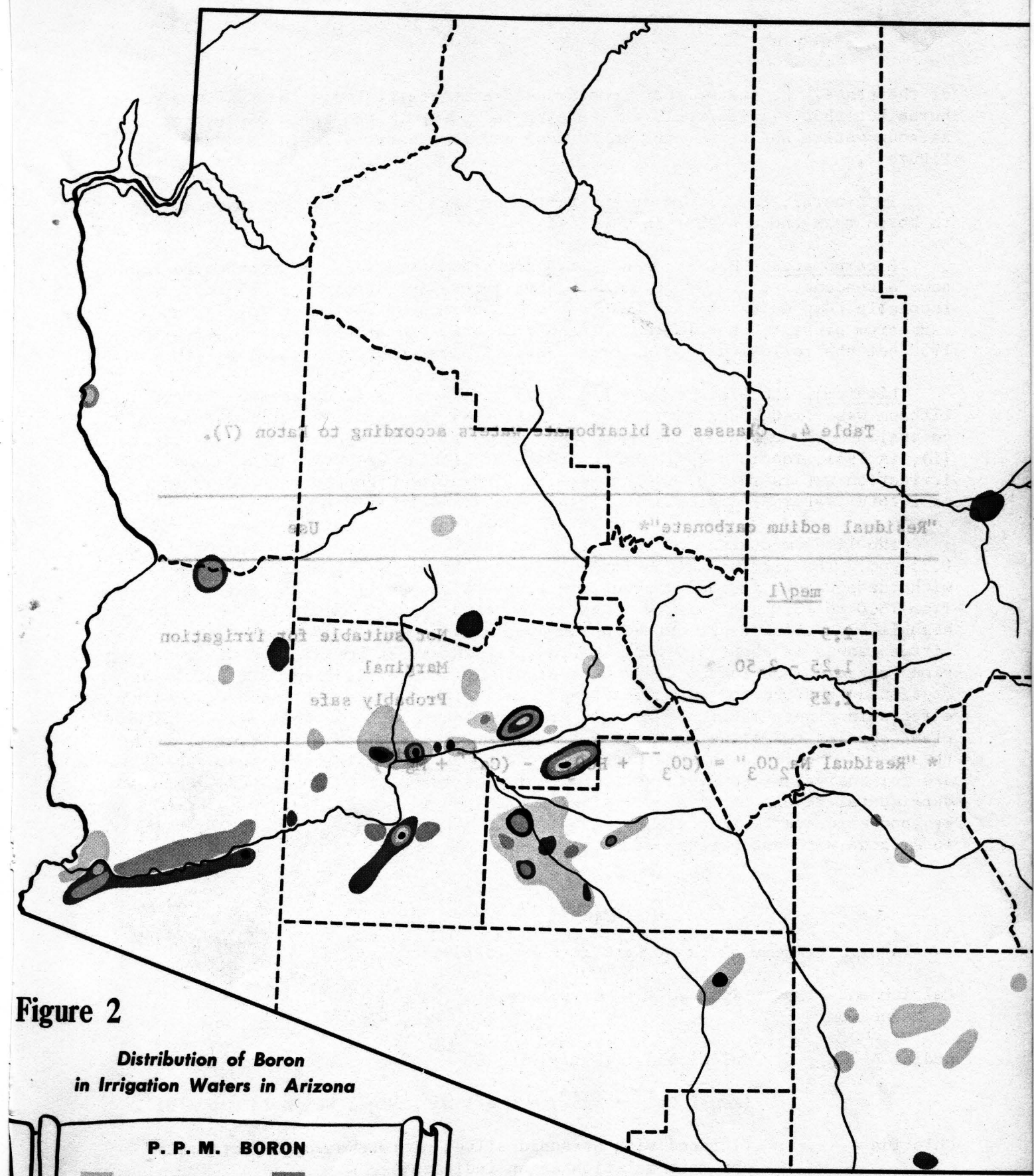


Figure 2

Distribution of Boron in Irrigation Waters in Arizona

Table 4. Classes of bicarbonate waters according to Eaton (7).

"Residual sodium carbonate"*	Use
meq/l	
2.5	Not suitable for irrigation
1.25 - 2.50	Marginal
1.25	Probably safe

* "Residual Na_2CO_3" = $(CO_3^{--} + HCO_3^{-}) - (Ca^{++} + Mg^{++})$

Sulfate	Turbidimetric method. Precipated as barium sulfate, stabilized with gum arabic.
Carbonate	Titrated with N/50 H_2SO_4 to the phenolphthalein end-point.
Bicarbonate	Titrated with N/50 H_2SO_4 using the mixed indicator brom cresol green-methyl red.
Nitrate	Phenol-disulfonic acid method. Chlorides removed when they exceed 1 meq/1 to avoid interference.
Total Dissolved Solids	Sum of the ions. (TDS analyses furnished by SRVWUA determined by evaporation.)
Specific Conductance Millimhos/cm. (EC x 10^3) at 25°C.	Determined by electrical conductivity by means of a solubridge.
Percent Sodium	$Na\% = \frac{Epm\ Na^+}{Epm\ Ca^{++} + epm\ Mg^{++} + epm\ Na^+} \times 100.$
Sodium-adsorption-ratio	Calculated from equation: $SAR = \frac{Na^+}{\sqrt{\frac{(Ca^{++} + Mg^{++})}{2}}}$ or are taken from the nomogram shown as Fig. 1. Data are calculated on a basis of equivalence.
Boron	Titrate with standard NaOH. The acid liberated by the addition of mannitol from a neutral, unbuffered solution of mixed salt containing boron.

CLASSIFICATION OF IRRIGATION WATERS

The chemical analyses of representative Arizona irrigation waters, together with pertinent general information regarding the source of the water, the location of the well, the well depth, depth of static level and other information is given in Table 5.

Water class, with respect to salinity, is evaluated by means of electrical conductivity, and the sodium or alkali hazard by means of the SAR. Water class is taken from the Salinity-Alkalinity Hazard Chart, Fig. 3. The chart is based on conductivity in micromhos (EC x 10^6); whereas, conductivity in Table 5 is given in millimhos (EC x 10^3). Millimhos ÷ 1000 = micromhos.

Figure 3 is taken from USDA Handbook No. 60, (20), to illustrate the sixteen water classes recognized by the Salinity Laboratory. A brief description of the "C-S" classes and a discussion of some of the properties of each class are given. These classes are not rigid, but are flexible to compensate for soil differences and levels of soil and water management. They do not take into account certain toxic ions; such as boron and lithium. These ions, if found in sufficiently high quantity alone can put waters into an undesirable or unusable class.

Conductivity - Sodium Classes

C1-S1 Low salinity - low sodium water: Waters in this class can be used with relative safety for irrigating any crop. It may be necessary to leach soils of low permeability occasionally if salt-sensitive plants are to be grown. There is little danger of developing harmful levels of exchangeable sodium from the use of waters of this class.

C1-S2 Low salinity - medium sodium water: Waters of this class can be used for irrigation if the salt which accumulates through evaporation of water and that lost by transpiration is leached from the root-zone. This normally occurs during irrigation. If these waters are used on soils having high base exchange capacity dominated by sodium, the slow water penetration problem will be alleviated by the use of gypsum and the salts may then be leached from the soil quite readily.

C1-S3 Low salinity - high sodium water: Ordinarily there is a tendency for soils which are irrigated with waters of this class to disperse because of the high level of exchangeable sodium and thus reduce the rate of penetration of water into the soil. Treatment of such soils will consist of providing good drainage, the addition of soil amendments and organic matter, and the application of adequate water for leaching.

C1-S4 Low salinity - very high sodium water: Waters falling in this class may be considered likely to cause penetration problems on medium to fine-textured soils. Calcium from highly calcareous soils or from gypsum present, may reduce the sodium hazard. If not naturally present, gypsum may be added. Organic matter should be used if available.

C2-S2 Medium salinity - medium sodium water: These waters will present a sodium hazard when used on fine-textured soils having a high base-exchange capacity. Gypsum should be applied, followed by moderate leaching. On coarse-textured or organic soils of good permeability, this water may be used without special caution.

C2-S3 Medium salinity - high sodium water: This water, being high in sodium, will produce harmful amounts of exchangeable sodium in the soil, requiring special soil management if crops are to be produced successfully. These practices include adequate drainage, high leaching, and organic matter additions. If the soil is not well supplied with gypsum, this amendment should be added to either the soil or the water. Chemical amendments may bring about the required condition in the soil but their use may not be feasible for low monetary value crops.

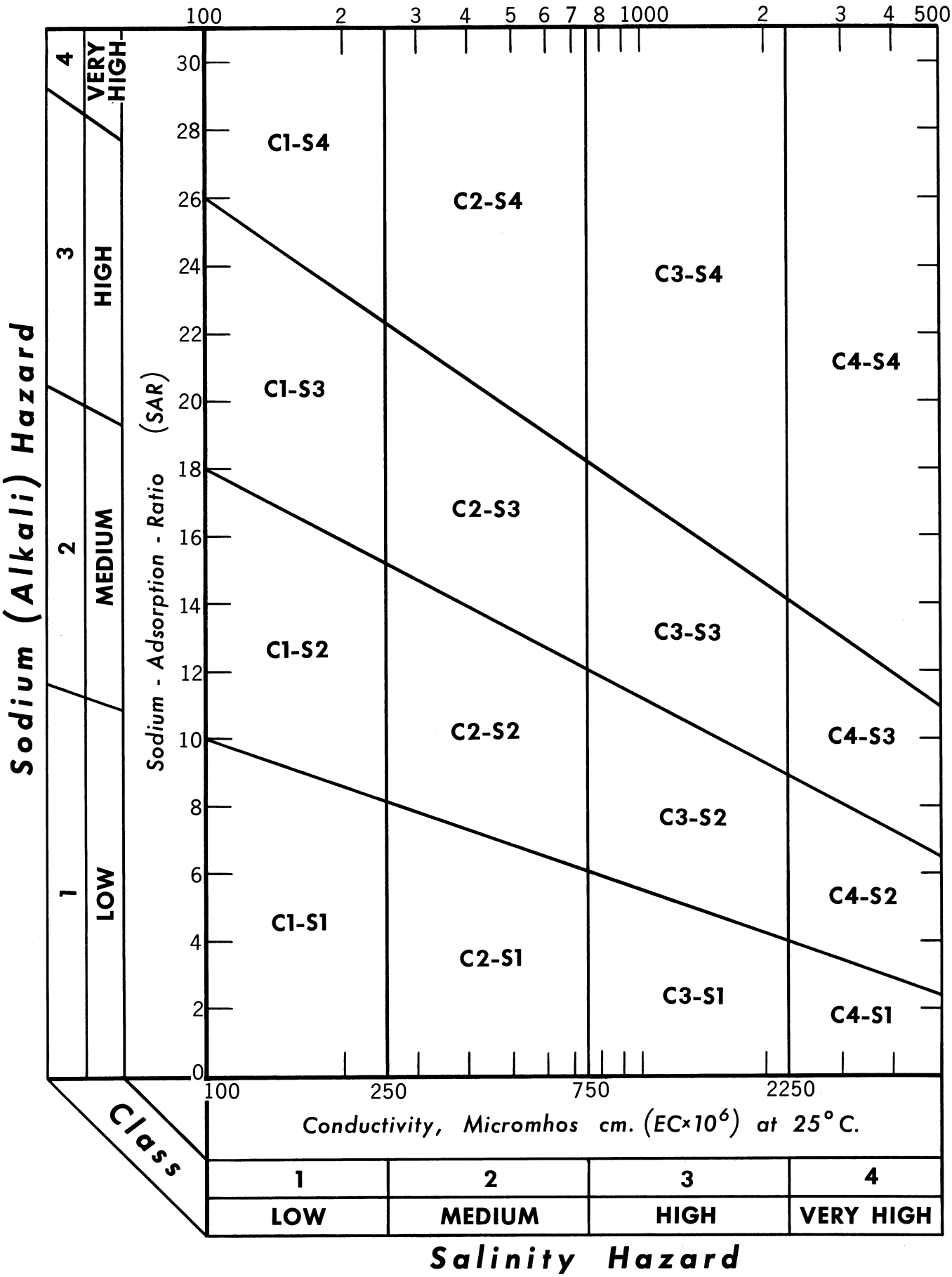


Figure 3 ***Diagram for the classification of irrigation waters.***

C2-S4 Medium salinity - very high sodium water: Very high sodium waters are seldom used for irrigation except in the low and medium salinity classes. Unless calcium is available in the soil, it must be added from elsewhere. Good soil drainage is essential if waters in this class are to be used for irrigation. Such waters in this class could not be used successfully except on very permeable soils or on those well supplied with calcium. If these conditions are not present, amendments may be used to supply the necessary calcium.

C3-S1 High salinity - low sodium water: This water should only be used on soils which can be leached easily. Salinity control must be practiced at all times. Only salt tolerant plants should be grown.

C3-S2 High salinity - medium sodium water: This water should be used only on those soils which have good drainage. Gypsum should be added to the soil or water, if it is not already present in the soil, to facilitate leaching. Only plants having a good salt tolerance should be grown.

C3-S3 High salinity - high sodium water: This water should be used only on soils having unrestricted drainage where special management for salinity control may be practiced. Because of the marginal nature of this water, special practices should include good drainage, high leaching and organic matter additions. Gypsiferous soils may not be adversely affected by the use of water of this quality but others may develop harmful levels of exchangeable sodium. The cost of chemical amendments could be prohibitive in extreme conditions.

C3-S4 High salinity - very high sodium water: Because of the high salt content of this water, it should be used only on soils having unrestricted drainage, for use by crops with good salt tolerance. Unfortunately, amendments may not be practical with waters of very high salinity.

C4-S1 Very high salinity - low sodium water: This water is generally considered to be poor quality for irrigation but it may be used if all other conditions are favorable. Specifically, drainage must be adequate, additional water must be applied for leaching and only crops of the highest salt tolerance used. There is little likelihood that this class of water will create an exchangeable sodium problem.

C4-S2 Very high salinity - medium sodium water: The very high salinity of this water permits occasional use and only then under favorable soil and plant conditions. An exchangeable sodium problem might develop in a soil irrigated with this water if the soil is fine-textured or otherwise poorly drained. Gypsum will reduce the sodium hazard. Only plants of high salt tolerance should be grown if water of this quality must be used.

C4-S3 Very high salinity - high sodium water: Because of the excessively high salt content of this water it is not recommended for use except under very special conditions. If used at all the soil must be permeable and well drained. Water must be applied in considerable excess to provide for leaching, and only the most salt tolerant crops should be attempted.

With respect to the high sodium content, it is to be expected that this water will contribute to the development of unfavorable conditions in the soil which in turn will require the standard treatment for the prevention and cure of high-sodium soil conditions.

C4-S4 Very high salinity - very high sodium water: This water is undesirable for irrigation with respect to both salinity and alkalinity. If used at all, it should be used very freely to leach the salt from the soil. Calcium from any source, whether dissolved from the soil or applied as an amendment, may improve the water to the point where it may have limited use, thus calcium amendments may improve conditions where waters belonging in classes C1-S3 and C1-S4 may have provisional use as irrigation waters.

Fuller (10) outlines in some detail the reclamation of saline and alkali soils which have developed as a result of improper use of water or from neglecting to use proper farm management practices. Bernstein et al. (2) discuss methods of controlling salinity in the Imperial Valley, California and make recommendations regarding the shape of the seed-bed and placement of the seed to avoid salinity which accumulates on the surface of the ridges. The use of gypsum and some sulfur-bearing soil amendments to provide soluble calcium to the soil solution either directly or indirectly is discussed in a bulletin by Fuller and Ray (11) which is available upon request.

DISCUSSION

This report was published to make available to the public the chemical analyses of waters which have been tested in the laboratory since 1949 when the last bulletin on this subject was issued. It covers the period 1949-1963. It differs from the reports of the U. S. Geological Survey published by the Arizona State Land Department (4, 16) in that each water is classified according to its suitability for irrigation. This classification is based only on the total salt and the sodium factor. It is not a rigid classification but should be interpreted in light of other considerations such as permeability of soil to water, the amount of water available for leaching, the capability of the farm manager, etc. It is true that some saline waters listed in Table 5 are described as being unsuitable for irrigation yet are being used regularly for the production of alfalfa, sorghums, and barley. This is why good management makes it possible, at times, to use waters of higher class than is most desirable.

This report does not consider well logs, diameter of casings, drawn down, capacity, water table contours, and other hydrological data because of a lack of information.

In several cases, however, records of analyses of water quality from single wells over a period of years show changes with time. One such well from Goodyear Farms in Litchfield Park, T.2N., R.1W., Sec. 2, shows fluctuations ranging from 350 ppm to 883 ppm, a range of 533 ppm over a five-year period. Possible causes may have been: 1. Recharged with waters differing from the original water or, conversely, 2. Water may have been drawn from a strata containing differing salt levels.

Prolonged pumping over an extended period of time has sometimes lowered the water table to a point from which it is too expensive to pump for ordinary farm crops. However, many wells have been deepened to more than 1,000 feet. Kister and Hardt (15) in studying quality of water in wells located in T.6S., R.7E, which is between Coolidge and Casa Grande, found water-bearing strata, the waters of which increased in chloride content from 248 ppm at 350 feet to 10,400 ppm at 550 feet. This was for Well No. 83. Waters from Well No. 85 showed wide differences in specific conductance (micromhos at 25°C.) with depth. For example, the specific conductance at 250 feet was 1,460 while at the 500 foot level it was 10,400 and 6,730 micromhos at a depth of 1,000 feet. The practical value of this information is apparent. After the upper strata waters have become exhausted, waters from the intermediate and lower strata which are excessively high in salts remain and are of questionable value for use in irrigation. The authors warn that this condition may be a local one and that it does not necessarily apply to all areas in Southern Arizona.

There is no attempt in this report to determine the quality of water available for any particular farm if waters from more than one source or quality are used. Thus the quality of water depends upon the proportion of each water used in the blend. An example may illustrate the point. The Salt River Valley Water Users' Association has waters of different qualities available for use. Some are surface waters from the Salt and Verde rivers while others are ground waters from the upper, middle and lower parts of the Salt River Valley.

In the Salt River Valley Water Users' Association project there are areas, Fig. 4, where the well waters are high in salts and other areas where the salt content is low. Some of the waters of higher salinity are found in the southern part of the valley in the vicinity of West Chandler and extending westward along the Salt River, through southern parts of T.1S., R.4E. - 5E., and as far west as Tolleson. There exists another area in T.2N., R.3E., where saline waters are found. The total salt content in these areas ranges from about 1,100 ppm to more than 3,300 ppm. On the other hand, the waters east of Scottsdale and those from Mesa and Tempe are relatively low in salt, and those in the vicinity of Glendale, Peoria, etc., generally have less than 1,000 ppm of salt.

In looking for a specific analysis in Table 4, one simply turns to the legal description of the well and finds the analysis in question. If the legal description is not known, then it may be located with reference to the closest town. Each town will of necessity be listed in several places according to the number of townships which are encompassed by it. For purposes of locating samples, the state is divided into four areas. The key point is the initial monument, the point at which the Gila and Salt Rivers join.

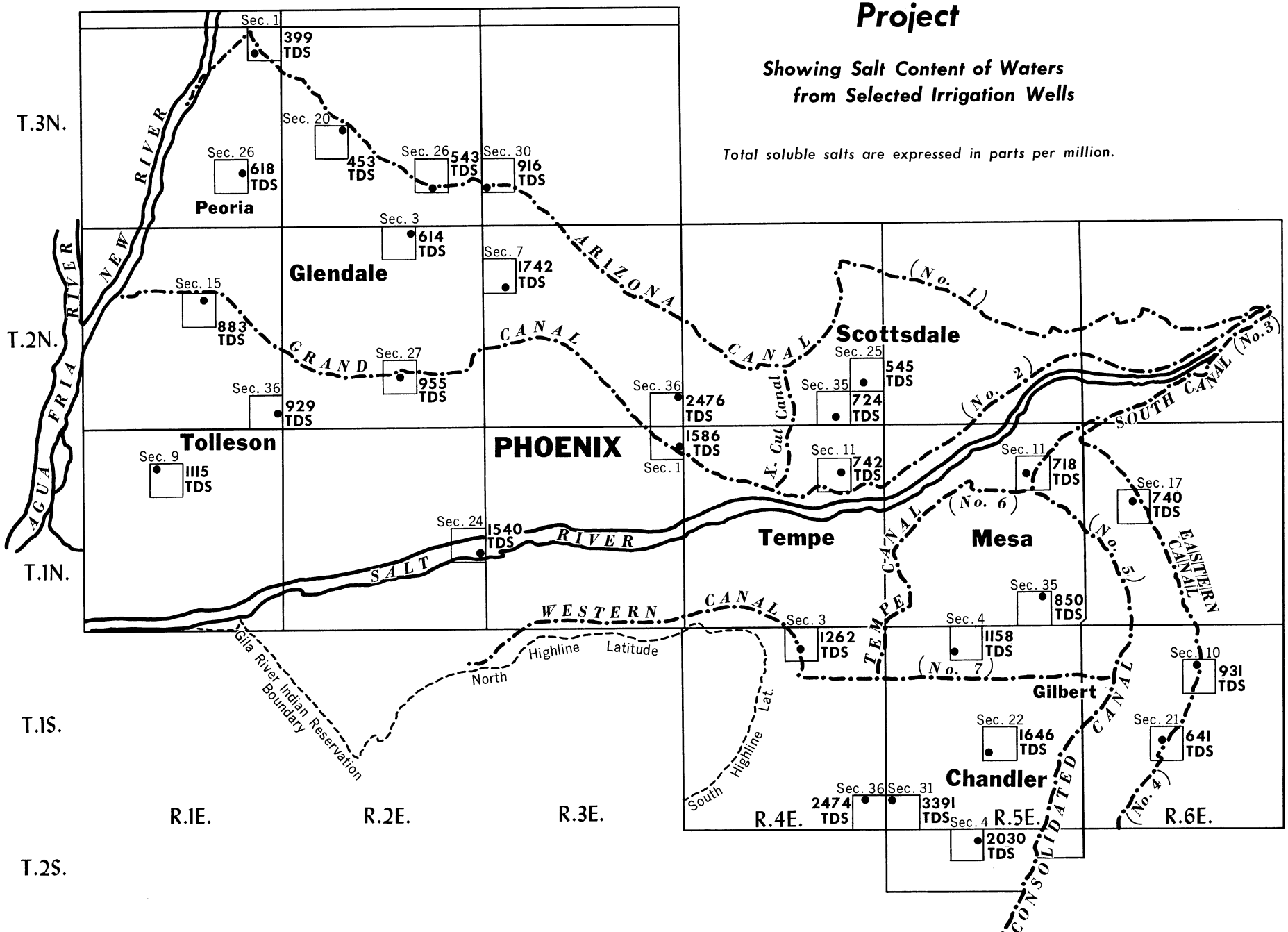
The order in which the areas are numbered is as follows: Area No. 1 is the northeast part of the state. No. 2 is the northwest part, while numbers 3 and 4 occupy the southwest and southeast areas respectively. Areas are broken down further into townships and ranges according to the key in Fig. 5.

Figure 4

Map of the Salt River Valley Water Users' Association Project

Showing Salt Content of Waters from Selected Irrigation Wells

Total soluble salts are expressed in parts per million.



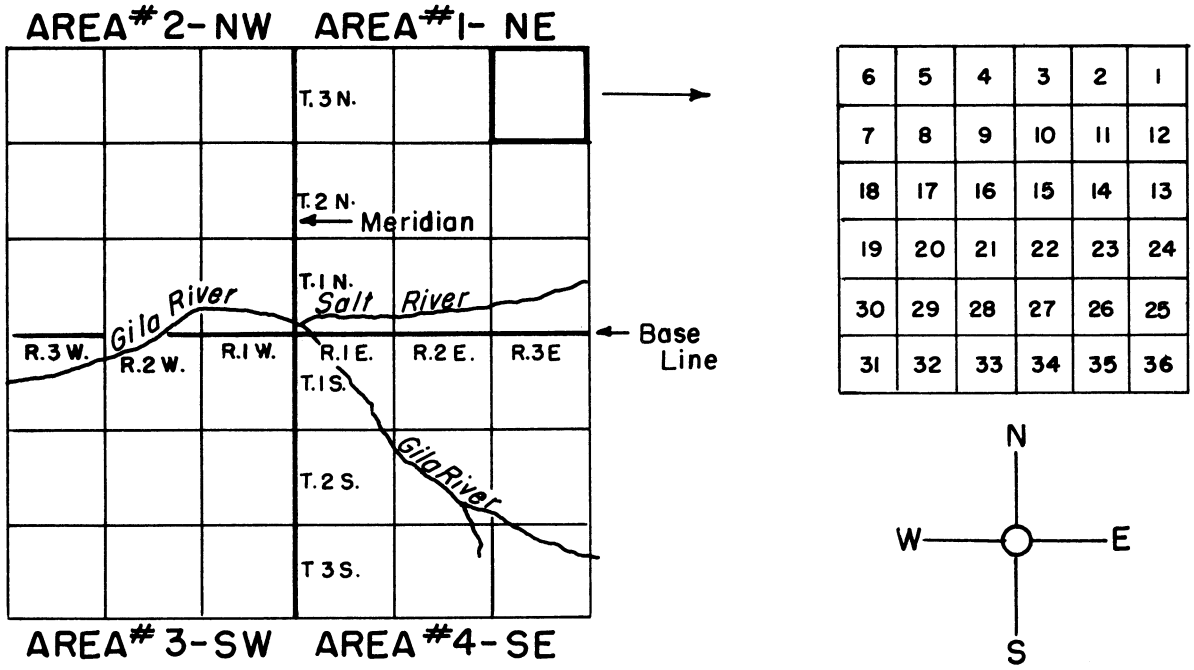


Figure 5 *The arrangement of townships, ranges and sections of the state.*

Each township is divided into 36 sections. Each section is one mile square and contains 640 acres. The sections are numbered from 1-36.

A map of Arizona prepared by the Departments of Agricultural Economics and Agricultural Engineering in cooperation with the U. S. Bureau of Reclamation shows the "Irrigated Areas in Arizona." Publication date is 1963. On this map of irrigated areas symbols were superimposed showing the location of the areas for which analyses are included in this report and also the number of samples from each township, Fig. 6. Many more analyses are on file in the department but were not used if other near by wells had water of similar quality. Representative samples were chosen from each area for inclusion in this report.

It is interesting to note that the areas of irrigation farming, though widely scattered, are with but few exceptions represented by a chemical analysis.

It is difficult to obtain information concerning well casings and the depths at which they have been perforated. However, it was possible to obtain this type of information from ten of the larger irrigation districts in the state, Table 6. Casing is used to prevent cave-in of the wells and to seal out undesirable strata of water. After the casing has been placed in the well it usually is perforated throughout or at each water-bearing strata. However, if an analysis of the water from each strata, made as the well is being drilled, shows a strata bearing undesirable water, it may be cased out. Most frequently the perforations are made throughout the greater part of the casing.

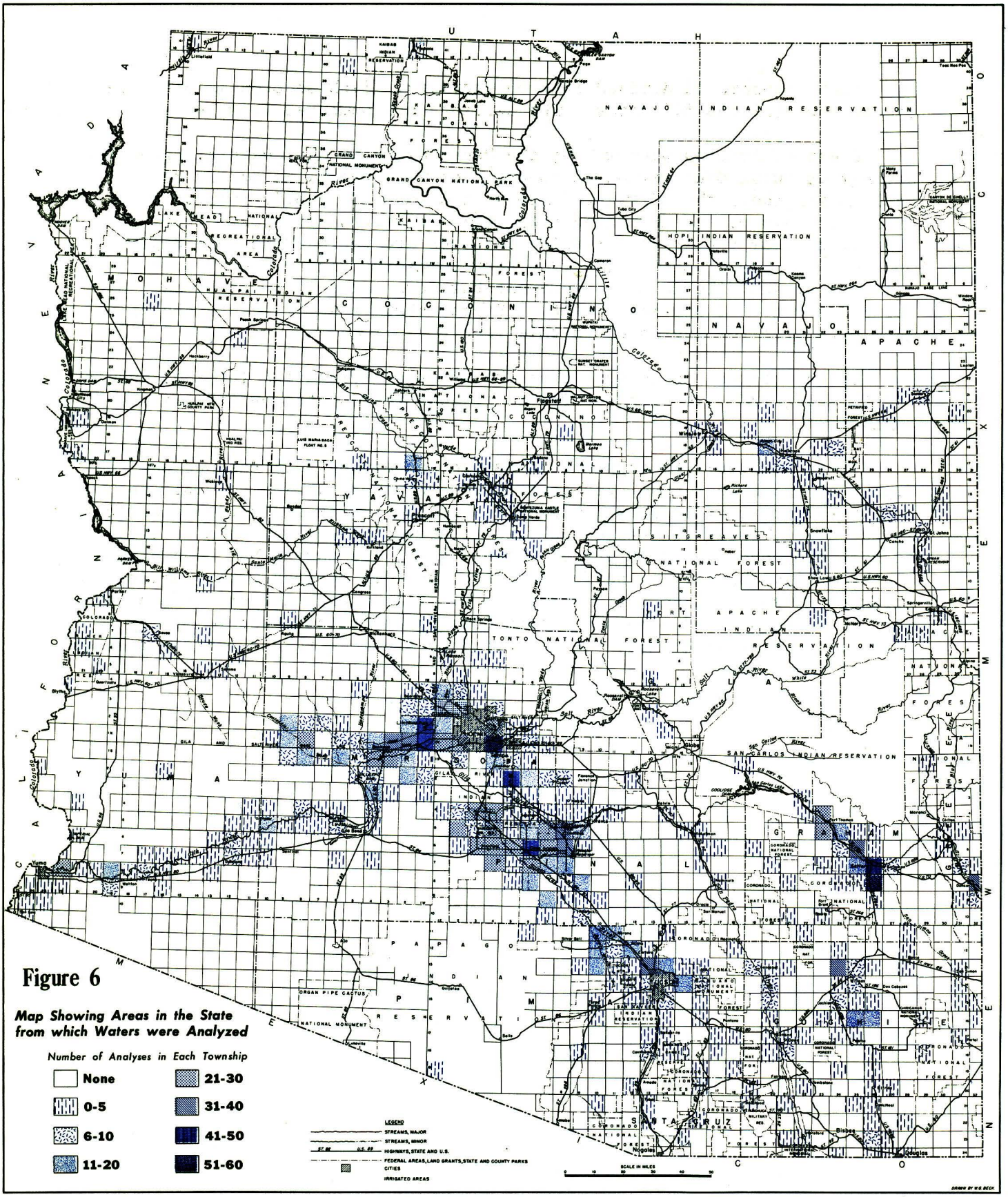


Figure 6

Map Showing Areas in the State from which Waters were Analyzed

LITERATURE CITED

1. Aldrich, D. G., Vanselow, A. P., and Bradford, G. R., 1951. Lithium toxicity in citrus. Soil Sci. 71:291-295.

2. Bernstein, Leon, Fireman, Milton and Reeve, R. E., 1955. Control of Salinity in the Imperial Valley. U. S. Salinity Bul. ARS 41-4.

3. Bradford, G. R., 1963. Lithium survey of California's water resources. Soil Sci. 96:77-81.

4. Brown, S. G., Schumann, H. H., Kister, L. R., and Johnson, P. W., 1963. Basic groundwater data of the Willcox Basin, Graham and Cochise Counties, Arizona. Prepared by the U. S. Geological Survey; published by the Arizona State Land Department. Water Resources Report, No. 14.

5. Catlin, C. N., 1926. Character of the groundwater resources of Arizona. Ariz. Agr. Exp. Sta. Bul. No. 114.

6. Eaton F. M., 1935. Boron in soils and irrigation waters and its effect on plants with particular reference to the San Joaquin Valley of California. USDA Tech. Bul. 448.

7. Eaton, F. M., 1950. Significance of carbonates in irrigation waters. Soil Sci. 69:125-133.

8. Forbes, R. H., 1902. The River - Irrigating waters of Arizona - their character and uses. Ariz. Agr. Exp. Sta. Bul. No. 44.

9. Forbes, R. H., 1906. Irrigating sediments and their effects upon crops. Ariz. Agr. Exp. Sta. Bul. No. 53.

10. Fuller, W. H., 1962. Reclamation of saline and alkali soils. Plant Food Review, Vol. 8, No. 3, Fall, 1962.

11. Fuller, W. H., and Ray, H. E., 1963. Gypsum and sulfur-bearing amendments for Arizona soils. Ariz. Agr. Exp. Sta. and Coop. Exten. Serv. Bul. A-27.

12. Gulley, F. A., 1890. Arizona Agricultural Experiment Station, Bulletin No. 1.

13. Haas, A. R. C., 1929. Mottled leaf in citrus artificially produced by lithium. Botan. Gaz. 87:630-644.

14. Kelley, W. P., 1963. Use of saline irrigation water. Soil Sci. 95:385-391.

15. Kister, L. R., and Hardt, W. F., 1961. Correlation of ground-water quality with different sediment types, lower Santa Cruz Basin, Arizona. Ariz. Geol. Soc. Dig., Vol. IV, pp. 79-85.

16. Kister, L. R., and Hatchett, J. L., 1963. Geohydrologic data in the Navajo and Hopi Indian Reservations, Arizona, New Mexico and Utah. Water Resources Report No. 12-B, Part II, Selected chemical analyses of ground water. In cooperation with the Bureau of Indian Affairs and the Navajo Tribe. Prepared by the U. S. Geol. Survey. Publ. by Ariz. State Land Dept.

17. McGeorge, W. T., & Breazeale, J. F., 1938. Studies on soil structure: Effect of puddled soils on plant growth. Ariz. Agr. Exp. Sta. Tech. Bul. No. 72.

18. McGeorge, W. T., and Wharton, M. F., 1936. The movement of salt (alkali) in lettuce and truck beds under cultivation. Ariz. Agr. Expt. Sta. Bul. 152.

19. Meinzer, O. E., and Kelton, F. C., 1913. Geology and water resources of Sulfur Spring Valley. With a chapter by Robert H. Forbes. Ariz. Agr. Exp. Sta. Bul. No. 72.

20. Richards, L. A. (Editor) and Staff of U. S. Salinity Laboratory, 1954. Diagnosis and improvement of saline and alkali soils. U. S. Dept. of Agr. Handbook 60.

21. Scofield, C. S., 1936. The salinity of irrigation water. Smithsonian Institute Annual Report 1935, 275-287.

22. Skinner, W. W., 1903. The underground waters of Arizona - Their character and uses. Ariz. Agr. Exp. Sta. Bul. No. 46.

23. Smith, H. V., Caster, A. B., Fuller, W. H., Breazeale, E. L., and Draper, G. E., 1949. The chemical composition of representative Arizona Waters. Ariz. Agr. Exp. Sta. Bul. No. 225.

24. Smith, H. V., 1949. Boron as a factor in Arizona's agriculture. Ariz. Agr. Exp. Sta. Tech. Bul. No. 118.

25. Smith, H. V., Draper, G. E., Fuller, W. H., and Buehrer, T. F. Ariz. Agr. Exp. Sta. and Marx, G. W., Ariz. State Dept. of Health, 1963. The quality of Arizona's domestic waters. Report No. 217, Ariz. Ag. Exp. Station.

26. Staff, 1891. Irrigation in Arizona. Ariz. Agr. Exp. Sta. Bul. No. 3.

27. Staff, 1891. Waters and water analysis. Ariz. Agr. Exp. Sta. Bul. No. 4.

28. Staff, 1892. Soils and waters. Ariz. Agr. Exp. Sta. Bul. No. 4.

Table 3
The Boron Content of Waters from Various Sources in Arizona

Town	County	Legal Description	Identifying Name	Date	Well No.	Lab. No.	Boron (B)
Agua Caliente	Maricopa	T.4S., R.10W.					
		Sec. 17	J. S. Francis, Jr.	6/59	---	73354	1.6
		----------	Lloyd Golder	3/59	---	72835	0.4
Agua Fria	Maricopa	T.1N., R.1E.					
		Sec. 33	Indian Reservation	5/61	---	78241	0.9
Alhambra	Maricopa	T.2N., R.3E.					
		Sec. 16	Mrs. John Ekstrom	7/58	---	71336	2.6
Arlington	Maricopa	T.1S., R.5W.					
		Sec. 7	W. F. Wilson	4/61	---	77973	0.5
		T.1S., R.6W.					
		$NE\frac{1}{4},SW\frac{1}{4}$ Sec. 13	J. C. Bradley	9/63	---	83989	2.05
		$NW\frac{1}{4},NW\frac{1}{4}$ Sec. 18	Bill Hardison	9/63	---	83990	1.15
		Sec. 27	Spencer Wilson	8/57	---	69062	1.8
		$SW\frac{1}{4},NW\frac{1}{4}$ Sec. 27	Wilson & Wilson	9/63	---	83985	1.82
		T.1S., R.7W.					
		$SW\frac{1}{4}$ Sec. 19	R. L. Ward, M.D.	11/59	---	74674	1.4
Avondale	Maricopa	T.1N., R.1W.					
		Sec. 10	Roosevelt Irrigation District	9/63	2W-5N	83562	0.11
		Sec. 18	"	9/63	5 5/8W-3 1/2N	83565	1.84
		Sec. 22	Rancho Santa Maria	10/61	1	79095	0.26
		Sec. 22	"	10/61	2	79096	0.09
		Sec. 28	Buckeye Irrigation Co.	9/63	6A	83706	1.52
		Sec. 30	"	9/63	3A	83703	0.88
		Sec. 34	"	9/63	1L	83694	0.88
		T.1N., R.2W.					
		Sec. 8	Roosevelt Irrigation District	9/63	10W-4 1/4N	83554	0.63
		Sec. 12	"	9/63	6W-4 3/8N	83568	0.63
		Sec. 14	Harry Hollingshead	6/57	---	68704	1.4
		Sec. 15	Roosevelt Irrigation District	9/63	9W-3N	83571	1.58
		Sec. 17	"	9/63	11W-3 3/4N	83555	0.49
		Sec. 21	J. L. Hodges	6/58	---	71059	1.28
		Sec. 26	Buckeye Irrigation Co.	9/63	3M	83709	1.48
		Sec. 27	"	9/63	4M	83925	1.72
		Sec. 28	"	9/63	8M	83712	1.53
		Sec. 30	"	9/63	11M	83715	1.88
		T.2N., R.1W.					
		$NW\frac{1}{4},NW\frac{1}{4}$ Sec. 18	Carter Co.	6/59	---	73327	0.6
		Sec. 24	Goodyear Farms	3/60	---	75849	0.19
		Sec. 26	Roosevelt Irrigation District	9/63	1 1/4W-7 3/4N	83552	0.14
		T.2N., R.2W.					
		$SW\frac{1}{4},NW\frac{1}{4}$ Sec. 24	Goodyear Farms	3/60	---	75850	0.24
		Sec. 24	"	3/62	24A	80234	0.11
		Sec. 24	"	3/62	24B	80235	0.14
		Sec. 24	"	3/62	24D	80237	0.12
Aztec	Yuma	T.7S., R.12W.					
		Sec. 25	John Kai	1/63	1	81774	1.9
		Sec. 25	"	1/63	2	81775	1.88
		Sec. 25	"	1/63	3	81776	2.54
Blaisdell	Yuma	T.8S., R.21W.					
		Sec. 19	Yuma Irrigation District	2/60	78	75429	0.99
Buckeye	Maricopa	----------	S. W. Hansen	7/61	---	78633	1.03
Butler Well	Yuma	T.10N., R.14W.					
		Sec. 23	Dale Smith	6/63	---	82744	1.04
		Sec. 23	"	6/63	---	82745	0.64
		Sec. 23	"	6/63	---	82746	1.01
Caledon	Maricopa	T.5S., R.3W.					
		$NW\frac{1}{4},NW\frac{1}{4}$ Sec. 8	H. O. Rydstrom	9/63	---	83934	0.99
Casa Grande	Pinal	T.6S., R.6E.					
		$NE\frac{1}{4},NE\frac{1}{4}$ Sec. 5	Paul Carron	7/63	E-26-A	82882	0.31
		Sec. 16	Gay Gilbert	6/63	E-9-A	82700	0.27
		Sec. 23	H. Diwan	7/63	E-8-A	82763	0.16
		Sec. 23	J. O. Thompson	6/63	E-18-A	82702	0.23
		Sec. 24	K. T. Carlton	6/63	E-4-A	82697	0.8
		$SW\frac{1}{4},SW\frac{1}{4}$ Sec. 34	San Carlos Project	7/63	102	83021	0.47
		T.6S., R.7E.					
		$SE\frac{1}{4},NE\frac{1}{4}$ Sec. 2	Virgil Wuertz	7/63	E-20-B	82978	0.8
		Sec. 11	Bryant Strickland	7/63	E-6-A	82698	0.026
		Sec. 19	Robert Davis	7/63	E-7-A	82699	0.075
		$NE\frac{1}{4},NE\frac{1}{4}$ Sec. 31	San Carlos Project	7/63	116	83017	0.15
		T.7S., R.5E.					
		$SE\frac{1}{4},SE\frac{1}{4}$ Sec. 18	Ray Farming Co.	7/63	---	82992	0.18
		T.7S., R.6E.					
		$NE\frac{1}{4},SE\frac{1}{4}$ Sec. 1	San Carlos Project	7/63	91	83025	0.1
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 24	Ison & Ison	7/63	G-9-A	82989	0.41
		T.8S., R.6E.					
		Sec. 2	Bud Bloom	7/63	E-16-A	82766	0.16
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 3	J. E. Robinette	7/63	G-10-A	82990	0.2
Castle Hot Springs	Yavapai	T.8N., R.1W.					
		Sec. 33	Dr. Shields	4/61	---	77826	1.35
Cave Creek	Maricopa	----------	June McElhaney	11/63	---	84976	0.17
Chandler	Maricopa	T.1S., R.4E.					
		Sec. 26	Arthur Price	1/59	5	72455	1.5
		Sec. 30	Cotton Research Farm	7/63	---	82869	0.49
		Sec. 33	Arthur Price	1/59	4	72454	2.6
		Sec. 36	"	1/59	1	72451	1.8
		Sec. 36	"	1/59	2	72452	1.4
		Sec. 36	"	1/59	3	72453	2.2
		Sec. 36	"	1/59	6	72456	0.5
		T.2S., R.4E.					
		Sec. 13	Bogle Farms	10/59	Indian #1	74400	0.36
		Sec. 13	"	10/59	Indian #2	74401	0.72
		Sec. 24	"	10/59	Indian #3	74402	1.4
		T.2S., R.5E.					
		Sec. 4	"	10/59	8	74415	0.25
		Sec. 4	"	10/59	9	74416	0.7
		Sec. 8	"	10/59	6	74413	0.48
		Sec. 8	"	10/59	7	74414	0.37
		Sec. 9	"	10/59	1	74399	0.8
		Sec. 9	"	10/59	5	74403	0.53
		Sec. 9	"	10/59	3	74412	0.71
		Sec. 17	"	10/59	17	74404	0.32

Table 3 Continued
The Boron Content of Waters from Various Sources in Arizona

Town	County	Legal Description	Identifying Name	Date	Well No.	Lab. No.	Boron (B)
Chandler	Maricopa	T.2S., R.5E.					
		Sec. 17	Bogle Farms	10/59	18	74405	0.38
		Sec. 17	"	10/59	25	74409	0.41
		Sec. 18	"	10/59	26	74410	0.6
		Sec. 19	"	10/59	19	74406	1.3
		Sec. 20	"	10/59	28	74411	0.93
		Sec. 20	"	10/59	22	74408	0.64
		Sec. 21	"	10/59	21	74407	0.29
		Sec. 29	"	10/59	29	74419	0.74
		Sec. 31	"	10/59	31	74420	0.25
		Sec. 32	"	10/59	10	74417	0.84
		Sec. 32	"	10/59	11	74418	0.86
		Sec. 32	"	10/59	33	74421	0.29
		Sec. 32	"	10/59	34	74422	0.12
Chuichu	Pinal	T.8S., R.7E.					
		SE¼,SE¼ Sec. 14	Irene Waugh	7/63	E-19-A	82812	0.07
		SE¼,SE¼ Sec. 16	H. L. Kendrick	7/63	E-22-A	82813	0.07
		Sec. 28	R. E. Hamilton	7/63	E-14-A	82764	0.09
Cochise	Cochise	T.15S., R.24E.					
		Sec. 20	John Payne	10/63	---	84010	0.1
Near Cochise		T.15S., R.25E.					
		Sec. 34	Frank Geers	7/63	G-2	83092	0.07
		Sec. 34	"	7/63	G-3	83093	0.04
		Sec. 34	"	7/63	G-4	83094	0.48
		Sec. 35	Al Angulo, Collector	7/63	K-1	83095	0.07
Cocklebur	Pinal	T.6S., R.3E.					
		SE¼,NE¼ Sec. 1	Sunrise Farms	7/63	G-17-A	83003	0.14
		SW¼,NW¼ Sec. 21	A. S. Harris	7/63	G-7-A	82987	0.64
		NE¼,SE¼ Sec. 24	M. H. Montgomery	7/63	G-16-A	83002	0.29
		SE¼,SW¼ Sec. 35	Louis Johnson	7/63	C-2-A	82887	0.48
		Sec. 36	Bob Gold	4/58	---	70660	1.4
		T.6S., R.4E.					
		SE¼,SE¼ Sec. 2	Ollerton-Cantrell	7/63	G-18-A	83004	0.39
		SE¼,NW¼ Sec. 22	Charles Hill	7/63	G-6-A	82986	0.26
		NW¼,SE¼ Sec. 24	W. W. Richey	7/63	G-15-A	83001	0.19
		T.7S., R.4E.					
		SE¼,SE¼ Sec. 2	Louis Johnson	7/63	C-1	82815	0.2
		SE¼,SW¼ Sec. 16	Jack Conelly	7/63	---	82991	0.73
Coolidge	Pinal	T.5S., R.7E.					
		NE¼,NW¼ Sec. 22	San Carlos Project	7/63	52	83032	0.29
		T.5S., R.8E.					
		NW¼,NW¼ Sec. 1	"	7/63	13	83029	0.4
		NE¼,NW¼ Sec. 7	"	7/63	33	83037	0.24
		SW¼,SW¼ Sec. 10	"	7/63	50	83024	0.12
		NW¼,SW¼ Sec. 23	"	7/63	23	83023	1.02
		Sec. 31	Wilbur Wuertz	6/63	E-2-A	82704	0.34
		SE¼,NW¼ Sec. 32	"	7/63	E-21-B	82979	0.6
		T.5S., R.9E.					
		SW¼,NW¼ Sec. 12	San Carlos Project	7/63	119	83039	0.19
		SW¼,SE¼ Sec. 20	"	7/63	25	83016	0.18
		NW¼,SW¼ Sec. 30	"	7/63	17	83026	0.18
		T.6S., R.8E.					
		Sec. 3	Worth Bartlett	6/63	E-1-A	82694	1.19
		Sec. 3	Bryant Strickland	6/63	E-3-A	82696	0.49
		NW¼,SE¼ Sec. 28	San Carlos Project	7/63	81	83028	0.08
Deer Valley	Maricopa	----------	M. W. Duncan	3/62	---	80182	0.23
Dome	Yuma	T.8S., R.22W.					
		SE¼,SW¼ Sec. 22	Yuma Irrigation District	5/60	32	75424	0.34
		NW¼,NW¼ Sec. 25	"	5/60	49	75427	1.59
		N½ Sec. 26	"	5/60	43	75426	0.32
		SW¼ Sec. 26	"	5/60	41	75425	0.38
		NE¼ Sec. 31	"	5/60	14	75423	0.36
		Sec. 33	"	5/60	69	75428	0.50
Eloy	Pinal	T.7S., R.8E.					
		Sec. 7	Claude Caynman	6/63	E-2-A	82695	0.05
		Sec. 18	F. Wedder	7/63	---	83069	0.07
		T.8S., R.9E.					
		SE¼,SE¼ Sec. 7	Farmers Investment Co.	7/63	Pump #1	82808	0.13
		Sec. 7	Fred Andrews	1/63	---	81811	0.2
		Sec. 7	Farmers Investment Co.	11/63	---	84969	0.18
		T.9S., R.7E.					
		SE¼,SE¼ Sec. 2	McCarthy-Hildebrande Farms, Inc.	7/63	G-12-A	83000	1.13
		SE¼,SE¼ Sec. 3	"	7/63	G-11-A	82999	0.12
		Sec. 17	"	7/63	E-15-A	82765	0.11
		SE¼,NE¼ Sec. 26	Arizona Farming Co.	7/63	E-13-A	82880	0.08
		T.9S., R.8E.					
		Sec. 6	R. E. Hamilton	7/63	E-18-A	82767	0.15
		Sec. 21	J. G. Boswell Co.	6/63	E-11-A	82701	0.1
Florence	Pinal	T.4S., R.9E.					
		SE¼,SE¼ Sec. 26	San Carlos Project	7/63	10	83027	0.1
		Sec. 35	Emmit Ranken	6/63	---	82660	0.13
		T.4S., R.10E.					
		SW¼,NE¼ Sec. 16	San Carlos Project	7/63	12	83018	0.17
		NE¼,NW¼ Sec. 28	"	7/63	1	83022	0.14
		T.4S., R.11E.					
		SE¼,NE¼ Sec. 7	"	7/63	6	83019	0.19
		NE¼,NW¼ Sec. 8	"	7/63	Gila River	83020	0.14
Ft. Thomas	Graham	T.5S., R.23E.					
		Sec. 13	R. Foster	7/63	---	82739	0.66
Gila Bend	Maricopa	T.5S., R.4W.					
		SW¼,NW¼ Sec. 32	Gila River Ranch	7/63	28	83127	1.68
		T.5S., R.5W.					
		SW¼,SE¼ Sec. 18	H. O. Rydstrom	9/63	---	83932	0.77
		SE¼,SW¼ Sec. 23	"	9/63	---	83930	0.69
		T.6S., R.3W.					
		Sec. 18	"	9/63	---	83933	0.46
		T.6S., R.5W.					
		NW¼,SW¼ Sec. 3	Gila River Ranch	7/63	33	83124	1.11
		SW¼,SE¼ Sec. 4	"	7/63	56	83125	1.22
		T.6S., R.6W.					
		SW¼,SE¼ Sec. 2	"	7/63	44	83126	1.8
		SE¼,SE¼ Sec. 6	"	7/63	60	83123	1.96
		SE¼,SW¼ Sec. 11	"	7/63	46	83122	8.24
		Sec. 11	"	7/63	New	83121	1.9

Table 3 Continued
The Boron Content of Waters from Various Sources in Arizona

Town	County	Legal Description	Identifying Name	Date	Well No.	Lab. No.	Boron (B)
Gila Bend Indian Reservation	Maricopa	T.5S., R.6W.					
		$SE\frac{1}{4},SE\frac{1}{4}$ Sec. 4	H. O. Rydstrom	9/63	---	83929	0.94
		Sec. 11	"	9/63	---	83931	0.62
Gila River Indian Reservation	Maricopa	T.3S., R.5E.					
		Sec. 20	J. R. Kerby	7/61	1	78516	0.44
		Sec. 20	"	7/61	2	78517	0.23
		$NW\frac{1}{4},NE\frac{1}{4}$ Sec. 24	San Carlos Project	7/63	69	83033	0.45
		$SW\frac{1}{4},SW\frac{1}{4}$ Sec. 28	"	7/63	53	83034	0.26
		T.3S., R.6E.					
		$NW\frac{1}{4},NE\frac{1}{4}$ Sec. 31	"	7/63	67	83038	0.17
Glendale	Maricopa	T.2N., R.3E.					
		$NW\frac{1}{4},NE\frac{1}{4}$ Sec. 5	C. A. Stauffer	9/60	---	77024	1.0
Hassayampa	Maricopa	T.1N., R.5W.					
		Sec. 19	C. B. Ryker	7/61	---	78519	0.36
Hidden Valley	Pinal	----------	V. Merrill	12/59	Enke	74819	0.62
		----------	"	12/59	Fuller	74820	0.62
Higley	Maricopa	T.1N., R.6E.					
		Sec. 15	Arthur Burgher	10/63	---	84002	1.7
		Sec. 26	Jim Turner	3/59	---	72820	0.64
		Sec. 26	Roosevelt Water Conservation District	11/59	---	74670	0.4
Initial Monument	Maricopa	T.2S., R.1W.					
		Sec. 5	Rainbow Valley Citrus Bank	3/62	---	80125	0.5
Johnson	Cochise	T.13S., R.24E.					
		$NW\frac{1}{4}$ Sec. 13	Ed McGuire	10/63	1	84008	0.14
		$NW\frac{1}{4}$ Sec. 13	"	10/63	2	84009	0.06
		Sec. 13	J. D. McCormick	10/63	1	83919	0.08
		Sec. 22	Tom Taylor	10/63	---	83936	0.15
		Sec. 35	Bill Graham	10/63	1	83975	0.37
		Sec. 35	"	10/63	2	83976	0.22
		Sec. 35	"	10/63	3	83977	0.2
		Sec. 35	"	10/63	4	83978	0.26
La Palma	Pinal	T.8S., R.8E.					
		Sec. 10	Jack Ralston	7/63	E-24-A	82768	0.026
		Sec. 20	J. F. Nutt	7/63	E-5-A	83067	0.17
		$SE\frac{1}{4},SW\frac{1}{4}$ Sec. 21	"	7/63	E-29-A	82885	0.13
Liberty	Maricopa	T.1N., R.3W.					
		Sec. 13	Roosevelt Irrigation District	8/63	13W-3 1/8N	83558	3.96
		Sec. 22	Sharp Bros. Canal	2/61	---	77502	0.49
		Sec. 22	Arizona Citrus Growers	2/61	---	77503	0.51
		Sec. 28	Roosevelt Irrigation District	8/63	16W-1N	83577	4.21
		Sec. 31	"	8/63	18W-3/4N	83580	3.8
		Sec. 34	Buckeye Irrigation Co.	8/63	17M	83721	2.42
		Sec. 35	"	8/63	14M	83718	2.99
Light	Cochise	T.18S., R.27E.					
		$SW\frac{1}{4},NE\frac{1}{4}$ Sec. 25	J. G. Ferris	7/63	---	82902	0.0
		$SW\frac{1}{4},NE\frac{1}{4}$ Sec. 25	"	7/63	2	82904	0.0
Love	Yuma	T.6N., R.12W.					
		Sec. 21	H. L. Beck	9/60	---	77059	1.09
Lowell	Cochise	T.23S., R.26E.					
		Sec. 19	Randolph Jenks	10/63	---	84006	1.03
Maricopa	Pinal	T.4S., R.2E.					
		$SW\frac{1}{4},NW\frac{1}{4}$ Sec. 35	Jack Ralston	7/63	---	82995	3.29
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 35	"	7/63	E-33-A	82982	0.86
		T.4S., R.4E.					
		$SW\frac{1}{4},SW\frac{1}{4}$ Sec. 1	San Carlos Project	7/63	123	83036	0.24
		$NE\frac{1}{4},NW\frac{1}{4}$ Sec. 17	Jack Nichols	7/63	E-30-A	82980	0.77
		$SE\frac{1}{4},SW\frac{1}{4}$ Sec. 27	Howell Wadsworth	7/63	E-17-A	82811	0.44
		$SE\frac{1}{4},SW\frac{1}{4}$ Sec. 32	Daley & Bogel	7/63	G-4-A	82984	0.2
		$NW\frac{1}{4},SE\frac{1}{4}$ Sec. 33	Oliver Anderson	7/63	G-8-A	82988	0.24
Maricopa Indian Reservation	Pinal	T.5S., R.2E.					
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 11	C & V Sheep & Cattle	7/63	---	82994	0.72
		T.5S., R.3E.					
		$NE\frac{1}{4},NW\frac{1}{4}$ Sec. 1	W. A. Dunn	7/63	E-31-A	82981	0.45
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 20	E. C. Cresty	7/63	---	82993	0.26
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 21	John Green	7/63	E-28-A	82884	0.27
		$SW\frac{1}{4},NE\frac{1}{4}$ Sec. 25	Louis Johnson	7/63	E-32-A	82881	0.08
		T.5S., R.4E.					
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 5	Daley & Bogle	7/63	E-34-A	83005	0.18
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 8	Charles Hill	7/63	G-3-A	82983	0.24
		$SE\frac{1}{4},SW\frac{1}{4}$ Sec. 27	Wilbur Kirkland	7/63	G-5-A	82985	0.23
		$SE\frac{1}{4},NW\frac{1}{4}$ Sec. 29	Sunrise Farms	7/63	E-23-A	82881	0.08
Marinette	Maricopa	T.3N., R.1E.					
		$NE\frac{1}{4},NW\frac{1}{4}$ Sec. 4	J. G. Boswell Co.	9/57	4A	69132	0.3
		$NW\frac{1}{4},NE\frac{1}{4}$ Sec. 9	"	9/57	9B	69133	0.3
		$SW\frac{1}{4},SW\frac{1}{4}$ Sec. 16	"	9/57	16C	69134	0.5
		$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 18	"	9/57	18B	69135	0.4
		T.4N., R.1E.					
		Sec. 13-14	Isabell-Hartner	6/60	---	76514	0.14
		Sec. 32	J. G. Boswell	9/57	32B	69136	0.4
		Sec. 33	"	9/57	33C	69137	0.3
Mohave City	Mohave	T.19N., R.22W.					
		Sec. 23	Henry Soto	9/63	3	83782	0.13
		Sec. 26	Vanderslice	9/63	4	83783	0.1
		Sec. 26	Sam Joy	10/63	---	84092	0.71
		Sec. 36	"	9/63	1	83780	0.61
		Sec. 36	"	9/63	2	83781	0.6
Nunez	Pinal	T.6S., R.5E.					
		$SE\frac{1}{4},SW\frac{1}{4}$ Sec. 23	San Carlos Project	7/63	107	83040	1.07
		$SE\frac{1}{4},NW\frac{1}{4}$ Sec. 31	Jay Wilson	7/63	E-27-A	82883	0.06
Painted Rock	Maricopa	T.7S., R.6W.					
		$SE\frac{1}{4},SE\frac{1}{4}$ Sec. 8	Black Gap	1/60	---	74986	1.62
		$SE\frac{1}{4},SE\frac{1}{4}$ Sec. 12	D. J. Morgan	11/59	---	74706	1.83
Palo Verde	Maricopa	T.1N., R.4W.					
		Sec. 20	Roosevelt Irrigation District	7/60	22 5/8W-2 3/8N	76793	1.04
		Sec. 20	"	8/58	"	71424	3.1
		Sec. 23	"	8/58	19W-2 1/4N	71422	5.4
		Sec. 23	"	7/60	"	76791	5.95

Table 3 Continued
The Boron Content of Waters from Various Sources in Arizona

Town	County	Legal Description	Identifying Name	Date	Well No.	Lab. No.	Boron (B)
Palo Verde	Maricopa	T.1N., R.4W.					
		Sec. 27	Roosevelt Irrigation District	8/58	20W-1 5/8N	71423	3.8
		Sec. 27	"	8/63	"	83560	2.62
		Sec. 31	"	8/63	23 3/4W-ON	83586	3.16
		Sec. 35	"	8/63	20W-3/4N	83583	6.4
		T.1S., R.4W.					
		Sec. 2	Buckeye Irrigation Co.	8/63	22M	83724	6.16
		Sec. 6	Roosevelt Irrigation District	5/59	23 1/2W-5/8S	73196	1.32
		Sec. 6	"	9/59	"	74207	1.2
		Sec. 6	"	8/58	"	71530	0.52
		Sec. 8	Buckeye Irrigation Co.	8/63	26M	83727	2.38
		Sec. 10	"	9/63	3 1/2L	83923	0.49
		$NW\frac{1}{4},NE\frac{1}{4}$ Sec. 26	Black Butte Farms	6/63	---	82689	0.45
Pearce (Near Pearce)	Cochise	T.17S., R.24E.					
		$SW\frac{1}{4}$ Sec. 11	J. B. Stevenson	10/63		84011	0.06
Peoria	Maricopa	T.2N., R.1E.					
		Sec. 4	Roosevelt Irrigation District	8/63	2 1/4E-12N	83604	0.05
		Sec. 9	"	8/63	2E-10 1/2N	83607	0.08
		Sec. 20	"	8/63	1E-8N	83613	0.16
		Sec. 30	"	8/63	1/2E-7 1/2N	83616	0.21
		-------	Tal Wi-Wi Ranches	9/58	4	71802	0.4
Phoenix	Maricopa	T.1N., R.2E.					
		Sec. 7	Roosevelt Irrigation District	8/63	6E-4N	83628	0.5
		Sec. 7	"	8/63	9E-5N	83652	0.72
		Sec. 8	"	8/63	7E-5N	83649	0.46
		Sec. 11	"	8/63	11E-5N	83655	0.67
		Sec. 13	"	8/63	11 1/2E-3N	83643	0.76
		Sec. 14	"	8/63	10E-3 3/4N	83637	0.63
		Sec. 15	"	8/63	7E-3 1/2N	83634	0.83
		Sec. 16	"	8/63	8E-3 1/2N	83631	0.61
		Sec. 18	"	8/63	12 1/2E-3 3/4N	83646	0.46
		Sec. 24	"	8/63	11E-3N	83640	0.83
		T.2N., R.2E.					
		Sec. 12	Tom Pendley	6/58	---	71077	0.55
		-------	J. M. Williams	10/58	---	72019	2.4

		-------	John Arseny	7/59	---	73616	1.1
		-------	O'Malley Investment Co.	7/61	---	78573	0.13
		-------	Lewis Whitworth	1/59	---	72457	0.25
			Lat. 19, 3 Mi. N. R. Ave.				
		-------	"	1/59	Isabell Pumpback	72458	0.35
			19th Ave. & Greenway				
		-------	"	1/59	" " #10	72459	0.35
			19th Ave. & Greenway				
		-------	"	1/59	Tyler & Nickelson #1	72460	0.40
			Power & McKillips Rds.				
		-------	"	1/59	" #2	72461	0.35
			Higley & McKillips Rds.				
		-------	"	2/59	---	72539	0.34
			Gilbert & Brown Rds.				
		-------	"	2/59	---	72540	0.38
			Gilbert & Brown Rds.				
Phoenix	Maricopa	----------					
		-------	Lewis Whitworth	2/59	---	72541	0.34
			Gilbert & Brown Rds.				
		-------	"	2/59	---	72542	0.25
			Gilbert & Brown Rds.				
		-------	"	4/59	Hillcrest-New	72927	0.15
			Lat. 19				
Sacaton	Pinal	T.4S., R.5E.					
		$NE\frac{1}{4},NE\frac{1}{4}$ Sec. 10	San Carlos Project	7/63	51	83031	0.37
		T.4S., R.6E.					
		$NE\frac{1}{4},NW\frac{1}{4}$ Sec. 23	"	7/63	47	83030	0.16
		T.4S., R.7E.					
		$NE\frac{1}{4},NE\frac{1}{4}$ Sec. 28	"	7/63	86	83035	0.32
Safford	Pinal	T.7S., R.26E.					
		Sec. 24	Scott Pace	7/63	---	83090	0.37
Salome	Yuma	T.5N., R.13W.					
		Sec. 4	Hunter & Mathews	6/63	K-1	82596	0.1
		Sec. 8	"	6/63	M-1	82595	0.09
		Sec. 10	"	6/63	G-1	82597	0.12
		Sec. 21	Keller Farms	7/63	---	82769	0.09
San Simone	Cochise	T.13S., R.31E.					
		Sec. 28	C. H. Caldwell	9/63	---	83755	0.26
Servoss (Near Servoss)	Cochise	T.16S., R.25E.					
		Sec. 9	C. E. Anderson	9/63	1	83753	0.08
		Sec. 9	"	9/63	---	83754	0.12
		Sec. 9	"	9/63	3	83918	0.1
		Sec. 23	Bianco	7/63	Owens Gas	83096	0.12
		Sec. 23	"	7/63	Owens Elect.	83097	0.15
		Sec. 26	W. B. Hubbard	7/63	R-3	83098	0.09
		Sec. 27	"	7/63	R-4	83099	0.13
		Sec. 27	"	7/63	R-5	83100	0.13
Simmons	Yavapai	T.16N., R.2W.					
		Sec. 12	Old Home Manor	9/63	2	83885	0.05
St. David	Cochise	T.18S., R.21E.					
		Sec. 28	St. David Irrigation District	9/63	1	83979	0.15
		Sec. 28	"	9/63	2	83980	0.19
St. Johns	Apache	T.13N., R.28E.					
		Sec. 27	St. Johns Irrigation Co.	8/57	---	69063	1.4
Sunglow	Cochise	T.18S., R.28E.					
		$NW\frac{1}{4},NW\frac{1}{4}$ Sec. 20	J. G. Ferris	7/63	---	82899	0.0
Tanque Verde	Pima	----------	Witzberger	6/59	House	73298	8.6
			4249 Soldiers Trail				
		-------	"	6/59	Well	73299	7.8
Tempe	Maricopa	T.1N., R.4E.					
		Sec. 32	U. A. Citrus Experiment Station	5-6/61	---	77889	0.13
		Sec. 32	"	6-7/61	---	77890	0.2
		Sec. 32	"	7-8/61	---	77891	0.2
		Sec. 32	"	8-9/61	---	77892	0.28

Table 3 Continued
The Boron Contents of Waters from Various Sources in Arizona

Town	County	Legal Description	Identifying Name	Date	Well No.	Lab. No.	Boron (B)
Tolleson	Maricopa	T.2N., R.1E.					
		Sec. 32	Roosevelt Irrigation District	8/63	1 3/4E-6 1/2N	83619	0.07
		Sec. 33	"	8/63	2 1/2E-6 1/2N	83622	0.11
		Sec. 34	"	8/63	3E-7N	83625	0.07
Tucson	Pima	T.15S., R.14E.					
		NE¼,SE¼ Sec. 2	Tucson Gas, Electric Light & Power Co.	1/60	---	74929	0.25
Willcox	Cochise	T.13S., R.25E.					
		Sec. 31	Alma Wooten	7/63	---	82773	0.12
Winters Well	Maricopa	T.1N., R.7W.					
		NW¼,NW¼ Sec. 1	Jewell Turner	9/63	---	83986	0.42
		T.1N., R.8W.					
		Sec. 11	Jackson & Perkins	5/61	---	78182	0.11
		Sec. 17	Porterfield & Haustgen	5/61	---	78242	0.26
Wrightstown	Pima	T.13S., R.16E.					
		Sec. 19	Roy St. Martin	9/63	---	83935	0.17
	Cochise	T.16S., R.28E.					
		SW¼,SE¼ Sec. 2	J. G. Ferris	7/63	---	82900	0.0
		NE¼,NE¼ Sec. 9	"	7/63	W. Riggs	82903	0.0
		T.17S., R.28E.					
		SE¼,SE¼ Sec. 6	"	7/63	---	82901	0.0
	Maricopa	T.1S., R.8W.					
		SW¼,SE¼ Sec. 6	J. S. Stephens	9/63	---	83988	0.54
		SE¼,NE¼ Sec. 14	Ward Ranches	9/63	---	83983	0.64
		T.1S., R.9W.					
		Sec. 6	W. F. Wilson	4/61	---	77974	0.59
		SW¼,SE¼ Sec. 10	T. B. Melton	9/63	---	83981	0.65
		T.2N., R.6W.					
		NW¼,NW¼ Sec. 21	Jewell Turner	9/63	---	83982	0.43
Yuma	Yuma	T.7S., R.23W.					
		Sec. 9	Tudor & Gleason	6/63	---	82607	0.25
		T.8S., R.23W.					
		NW¼,NW¼ Sec. 26	Yuma Irrigation District	5/60	2	75420	0.35
		SW¼,NE¼ Sec. 35	"	5/60	5	75421	0.4
		T.9S., R.22W.					
		Sec. 12	V. H. Ueckert	11/59	---	74675	0.28
		T.10S., R.23W.					
		NE¼ Sec. 12	E. F. Stark	7/59	---	73934	0.43
		---	R. E. Burris	10/63	1	84098	0.3
		---	Yuma Irrigation District	2/60	10	75422	0.35
		---	"	2/60	S. Drain	75430	1.12
		---	"	2/60	N. Drain	75431	0.85
	Maricopa	T.2N., R.7W.					
		NE¼,NE¼ Sec. 27	Jewell Turner	9/63	---	83987	0.26
		T.1N., R.9W.					
		SE¼ Sec. 1	Centennial Farms	5/61	---	78189	0.43
		SW¼,NW¼ Sec. 21	E. T. Wedder	9/63	---	83984	0.45
	Yuma	T.5S., R.13W.					
		Sec. 12	John Kai	1/63	---	81816	0.6
		Sec. 14	"	1/63	---	81812	1.0
		NE¼ Sec. 16	"	1/63	---	81813	0.84

Table 5

Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth	Static Level	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts 1/	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1N., R.1E.																						
Sec. 3	Tolleson	Maricopa	Roosevelt Irrigation District	9/63	---	---	3E,6N	I	83624	1.7	1019	106	64	140	379	119	2	156	53	36.6	2.6	C3-S1
Sec. 4	"	"	John Kulikoff	5/58	50	---	---	I	70825	3.1	2182	157	73	449	670	216	0	617	--	58.4	7.5	C4-S2
Sec. 8	"	"	P. H. Brummett	3/58	402	---	---	I	70381	3.0	2085	159	65	451	675	420	0	315	--	59.6	7.6	C4-S2
Sec. 9	"	"	SRVWUA*	2/61	500	174	---	I	22004	2.1	1115	123	82	165	465	128	0	170	68	35.6	2.8	C3-S1
Sec. 12	"	"	Wiley Baker	2/52	---	---	---	I	C3186	2.7	1895	105	45	449	518	230	0	500	--	68.5	9.2	C4-S3
Sec. 15	"	"	Jess Stump	7/51	---	---	---	I	C2854	5.3	3709	188	143	880	1246	780	0	415	--	64.4	:::**	:::**
NE¼ Sec. 15	"	"	A. W. Homrighausen	8/57	---	---	---	---	69009	3.0	2065	105	53	478	520	340	0	476	--	68.4	9.5	C4-S3
Sec. 16	"	"	Frye	3/53	---	---	---	I	C4047	0.4	251	15	8	45	22	121	0	151	--	58.0	2.5	C2-S1
Sec. 19	"	"	G. Heth	1/51	---	---	---	I	C2408	3.5	2435	90	41	652	630	360	0	622	40	78.2	14.3	C4-S4
Sec. 22	"	"	C. C. Cooper	4/55	180	65	---	I	C5551	3.9	2716	105	60	702	696	460	0	668	35	74.9	13.4	C4-S4
Sec. 25	"	"	Mrs. George Smith	9/50	290	---	---	I-D	C2189	1.7	1219	165	113	59	392	230	0	171	99	12.8	0.9	C3-S1
Sec. 26	"	"	Cooper	3/54	---	---	---	I-S	C4758	2.6	1805	128	38	425	604	180	0	410	20	66.0	8.5	C4-S2
Sec. 27	"	"	J. P. Stump	3/51	---	---	---	I	C2510	4.1	2889	90	41	806	780	350	0	803	19	81.6	10.3	C4-S3
Sec. 28	"	"	J. T. Trout	2/53	---	---	---	I	C3998	4.1	2866	165	60	728	966	420	0	505	22	70.3	12.2	C4-S4
Sec. 28	"	"	B. L. Hash	9/51	---	---	---	I	C2930	3.6	2543	158	56	637	960	210	0	522	--	68.9	11.1	C4-S3
Sec. 29	"	"	E. F. Marresford	7/55	105	95	---	I	C5715	6.5	4542	165	83	1275	1424	880	0	683	32	76.0	:::	:::
Sec. 29	"	"	G. R. Rogers	10/50	200	---	---	I	C2262	3.5	2475	120	64	652	902	420	0	317	--	71.5	12.0	C4-S3
Sec. 29	"	"	D. B. Leister	6/60	---	---	---	---	645-W	2.8	1743	154	58	364	688	240	0	239	--	56.0	6.3	C4-S2
Sec. 29	"	"	May Skousen	5/60	---	---	---	---	638-W	5.2	3699	211	123	879	1232	800	0	454	--	64.9	:::	:::
Sec. 30	Cashion	"	R. O. Baird	8/54	---	---	---	I	C5042	8.9	6206	330	173	1604	2310	1240	0	549	--	69.4	:::	:::
Sec. 30	"	"	"	9/54	---	---	---	I	C5153	15.9	11119	638	375	2797	4560	2200	0	549	--	65.9	:::	:::
Sec. 30	"	"	"	9/54	---	---	---	I	C5155	11.5	8054	450	255	2034	3110	1680	0	525	--	67.4	:::	:::
Sec. 32	Tolleson	"	M. C. Sanders	6/55	---	---	---	I	C5684	7.1	4989	540	135	994	1940	960	0	415	5	53.3	:::	:::
Sec. 35	Komatke	"	L. J. Browne	1/50	---	---	---	I	C1595	4.9	3392	233	90	801	1168	600	0	488	12	64.6	11.3	C4-S4
Sec. 35	Phoenix	"	S. J. Jonovich	8/59	175	42	---	I	74096	5.0	3341	182	104	851	1315	725	0	156	8	67.7	:::	:::
T.1N., R.2E.																						
Sec. 7	New River	"	H. O. Stillion	11/51	263	---	---	I-D	C3020	2.7	1854	113	45	426	500	230	0	500	40	66.4	8.6	C4-S3
Sec. 7	"	"	Roosevelt Irrigation District	9/63	---	---	6E,5N	I	83648	2.0	1258	108	58	228	449	135	5	234	41	38.9	4.3	C3-S2
Sec. 8	"	"	Col. Dravo	12/53	---	---	---	I	C4665	2.6	1839	75	41	466	484	220	0	527	26	74.0	10.7	C4-S3
Sec. 8	"	"	Tyson	7/60	---	---	---	---	676-W	5.3	3569	346	152	660	1323	760	0	328	--	49.1	7.5	C4-S3
Sec. 9	"	"	Roosevelt Irrigation District	9/63	---	---	8E,4¼N	I	83632	2.5	1524	115	38	335	480	175	5	346	30	62.1	6.9	C4-S2
Sec. 11	"	"	"	9/63	---	---	11E,5N	I	83655	2.1	1438	110	37	307	420	194	1	342	28	61.0	6.5	C3-S2
Sec. 12	"	"	"	9/63	---	---	11E,4¼N	I	83642	2.0	1147	104	35	222	357	128	5	273	23	54.5	4.7	C3-S2
Sec. 18	"	"	R. E. McDonald	1/50	600	---	---	I	C1569	2.6	1795	128	38	404	512	180	0	503	34	64.6	8.0	C4-S2
Sec. 19	"	"	C. C. Cooper	8/52	300	80	---	I	C3627	2.4	1681	120	45	371	510	210	0	407	18	62.4	7.5	C4-S2
Sec. 24	"	"	SRVWUA	1/59	600	90	---	I	21449	2.8	1540	131	50	380	564	193	0	405	22	60.7	7.2	C4-S2
Sec. 26	Laveen	"	M. C. Cash	6/53	200	---	---	I	C4238	3.1	2155	180	30	500	676	320	0	429	20	65.4	9.0	C4-S3
Sec. 28	"	"	C. H. Jackson	6/60	---	---	---	---	650-W	3.8	2854	212	81	624	864	550	0	523	--	61.2	11.5	C4-S3
Sec. 28	"	"	B. Cash	8/50	94	---	---	---	C2123	2.3	1638	173	60	288	518	350	0	249	20	48.0	4.8	C4-S2
Sec. 28	"	"	University Vegetable Research	10/53	---	---	---	---	C4500	2.3	1595	105	38	359	458	120	0	515	--	65.1	7.6	C4-S2
Sec. 29	"	"	Bob Tyson	3/56	---	---	---	I	C6236	6.2	4332	150	75	1238	1416	780	0	672	--	79.9	:::	:::
Sec. 29	"	"	D. B. Leister	8/57	---	---	---	I	C7567	2.2	1563	138	63	314	644	185	0	215	10	53.0	5.6	C3-S2

*Salt River Valley Users' Association. (Total soluble salts determined by evaporation).

::: The Total Soluble Salts are so high that the SAR and Water Class cannot be calculated. Please Note: This footnote applies to the entire table.

1/ A more accurate term for Total Soluble Salts is Total Dissolved Solids. Throughout this bulletin wherever TSS is referred to, it should be considered as TDS.

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1N., R.2E.																						
Sec. 33	Laveen	Maricopa	Shawver Bros.	7/50	285	---	---	I	C2043	3.4	2352	173	49	542	672	470	0	407	39	65.0	9.4	C4-S3
Sec. 33	"	"	Jim Pollard	1/53	---	---	---	I	C3969	3.3	2331	158	56	543	682	480	0	376	36	65.3	3.4	C4-S2
Sec. 33	"	"	N. O. Best Co.	1/54	1920	---	---	I	C4695	0.6	436	38	30	90	134	100	0	142	2	47.3	2.7	C2-S1
Sec. 34	"	"	H. McCulloch	1/53	---	---	---	I-D	C3951	3.3	2330	165	60	530	716	400	0	417	42	63.6	9.0	C4-S3
Sec. 34	"	"	"	7/56	106	---	---	I	C6700	3.4	2366	157	98	498	788	380	0	410	35	57.8	7.7	C4-S2
Sec. 34	"	"	"	4/59	240	62	---	I	73095	3.3	2310	139	75	543	816	370	0	327	--	66.2	9.3	C4-S3
T.1N., R.3E.																						
Sec. 1	Phoenix	"	SRVWUA	12/54	155	50	---	I	-----	2.7	1586	32	13	552	383	334	0	513	19	89.9	21.0	C4-S4
Sec. 13	"	"	J. J. Phillips	3/56	500	---	---	I	C6191	0.6	405	60	11	35	24	60	0	190	25	28.0	1.2	C2-S1
Sec. 36	Tempe	"	H. Collier	6/57	---	120	2	---	68697	4.6	3221	149	151	726	1040	800	0	334	--	61.1	10.0	C4-S3
T.1N., R.4E.																						
Sec. 1	Scottsdale	"	Greenacres Memorial Gardens	4/59	---	---	---	I	73096	0.9	642	46	31	127	258	30	0	149	--	53.3	3.7	C3-S1
Sec. 11	"	"	A. M. Cobb	10/51	170	---	---	I	C3013	1.5	1034	68	26	225	242	160	0	300	13	65.3	6.2	C3-S2
Sec. 11	"	"	SRVWUA	4/61	545	270	---	I	22081	1.4	742	65	43	151	277	91	0	215	9	53.0	3.5	C3-S1
Sec. 23	Tempe	"	B. Erling	6/57	---	---	---	---	68655	2.7	1484	146	106	182	390	450	0	210	--	33.0	2.8	C4-S1
Sec. 30	"	"	Cotton Research Farm	4/60	---	---	Well	I	75909	2.9	1910	117	59	446	676	220	0	366	26	64.5	8.4	C4-S2
Sec. 30	"	"	"	7/60	---	---	Well	I	76764	2.8	1885	123	61	428	687	185	0	381	20	62.6	7.9	C4-S2
Sec. 30	"	"	"	4/61	---	---	Well	I	77954	3.2	2046	144	83	432	775	218	0	366	28	57.3	6.6	C4-S2
Sec. 30	"	"	"	7/63	128	41	Well	I	82869	3.1	2155	131	25	574	743	325	2	327	30	74.4	12.0	C4-S3
Sec. 30	"	"	"	4/61	---	---	Well	D	77953	2.8	1765	113	61	386	596	150	0	459	--	61.1	7.3	C4-S2
Sec. 30	"	"	"	5/58	---	---	Well	D*	70488	2.5	1762	76	80	413	583	212	0	408	--	63.3	7.8	C4-S2
Sec. 30	"	"	"	4/61	---	---	Well	D*	77955	3.2	2056	122	68	461	661	208	0	536	--	63.1	8.5	C4-S3
Sec. 30	"	"	"	2/27/59	Canal Sequence			I	72625	1.6	1092	91	39	216	364	120	7	244	11	55.0	4.7	C3-S1
Sec. 30	"	"	"	2/28/59	"			I	72626	1.6	1103	91	39	219	364	120	5	254	11	55.0	4.7	C3-S1
Sec. 30	"	"	"	3/2/59	"			I	72627	1.6	1125	83	42	237	400	130	5	215	13	58.0	5.2	C3-S2
Sec. 30	"	"	"	3/14/59	"			I	72783	1.6	1081	83	35	227	386	110	2	248	10	58.4	5.2	C3-S2
Sec. 30	"	"	"	3/15/59	"			I	72784	1.5	1030	78	35	215	345	110	2	236	9	58.0	5.0	C3-S1
Sec. 30	"	"	"	3/16/59	"			I	72785	1.5	1079	83	36	223	366	115	2	244	10	57.7	5.1	C3-S2
Sec. 30	"	"	"	3/17/59	"			I	72786	1.3	932	72	30	195	315	85	1	227	7	58.2	4.9	C3-S1
Sec. 30	"	"	"	3/18/59	"			I	72787	1.5	881	67	25	190	293	85	1	214	6	60.5	5.0	C3-S2
Sec. 30	"	"	"	5/21/59	"			I	73306	1.7	1173	76	32	265	310	270	0	220	4	64.1	6.5	C3-S2
Sec. 30	"	"	"	5/28/59	"			I	73307	1.6	1119	68	28	261	292	260	T	210	4	66.5	6.7	C3-S2
Sec. 30	"	"	"	6/2/59	"			I	73308	1.3	923	72	28	194	304	105	T	220	5	59.2	4.9	C3-S1
Sec. 30	"	"	"	6/4/59	"			I	73309	1.4	1004	60	28	232	280	200	T	204	4	65.5	6.3	C3-S2
Sec. 30	"	"	"	7/15/59	Canal Composite			I	74230	1.3	867	60	26	187	256	105	2	224	7	61.2	5.2	C3-S2
Sec. 30	"	"	"	7/28/59	"			I	74231	1.5	930	65	26	210	306	110	6	202	5	62.9	5.6	C3-S2
Sec. 30	"	"	"	8/18/59	"			I	74232	1.5	941	66	27	214	324	110	7	188	5	62.5	5.5	C3-S2
Sec. 30	"	"	"	9/59	---	---	Canal	I	74270	1.4	877	62	26	189	285	90	0	220	5	60.6	5.2	C3-S2
Sec. 32	"	"	Citrus Experiment Farm	4-5/60	Canal Composite			I	77887	1.1	630	93	1	108	177	60	2	186	3	49.7	3.0	C3-S1
Sec. 32	"	"	"	5-6/60	"			I	77888	1.2	682	93	1	127	204	65	0	188	4	53.6	3.7	C3-S1
Sec. 32	"	"	"	6-7/60	"			I	77889	1.4	824	70	22	171	267	78	0	210	6	58.2	4.6	C3-S1
Sec. 32	"	"	"	7-8/60	"			I	77890	1.5	934	70	24	214	343	82	5	190	6	63.0	5.8	C3-S2
Sec. 32	"	"	"	9-10/60	"			I	77891	1.5	923	74	26	211	306	85	0	214	7	61.1	5.5	C3-S2

*Foreman's residence.

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1N., R.4E.																						
Sec. 32	Tempe	Maricopa	Citrus Experiment Farm	10-3/60-61	Canal	Composite		I	77892	2.0	1184	99	40	241	412	130	5	244	13	56.0	5.3	C3-S2
Sec. 32	"	"	"	3-5/61		"		I	80534	1.6	994	76	39	196	323	120	0	230	10	55.0	4.6	C3-S1
Sec. 32	"	"	"	5-7/61		"		I	80535	1.3	772	60	25	158	254	60	0	210	5	57.6	4.2	C3-S1
Sec. 32	"	"	"	8-10/61		"		I	80536	1.5	880	67	29	184	303	68	0	222	7	58.1	4.8	C3-S1
Sec. 32	"	"	"	10-1/61-62		"		I	80537	1.9	1172	92	30	258	406	115	0	258	13	61.3	6.0	C3-S1
Sec. 32	"	"	"	3-4/62		"		I	80538	0.8	487	42	17	86	125	35	0	178	4	21.6	2.8	C3-S1
Sec. 32	"	"	"	4-5/62		"		I	81383	1.6	884	72	27	184	304	80	0	210	7	58.0	4.7	C3-S1
Sec. 32	"	"	"	5-6/62		"		I	81384	1.6	884	65	25	196	312	75	0	205	6	61.6	5.2	C3-S2
Sec. 32	"	"	"	6-8/62		"		I	81385	1.4	798	59	37	152	278	72	0	195	5	52.4	3.7	C3-S1
Sec. 32	"	"	"	9-11/62		"		I	81386	1.7	1023	83	33	224	340	110	2	221	10	58.9	5.2	C3-S1
Sec. 32	"	"	"	6/63			Canal	I	82550	3.8	2639	187	80	590	792	625	0	332	--	61.6	9.1	C4-S3
T.1N., R.5E.																						
Sec. 10	Mesa	"	L. R. Layton	4/58	566	165	3-IA	I	70754	2.6	1790	141	78	350	618	288	0	315	--	53.0	5.8	C4-S2
Sec. 11	"	"	SRVWUA	5/60	701	306	---	I	21809	1.4	718	59	18	197	284	52	0	214	0	66.3	6.5	C3-S2
Sec. 35	"	"	SRVWUA	9/59	700	278	---	I	21646	1.6	850	83	33	199	325	62	0	283	9	55.7	4.8	C3-S2
T.1N., R.6E.																						
Sec. 4	"	"	W. D. White	10/60	750	325	---	I	77209	1.2	835	58	26	181	292	55	0	215	7	61.4	4.9	C3-S1
Sec. 15	"	"	C. J. Wood	9/56	---	---	---	---	C6907	3.6	2486	204	83	538	874	600	0	176	11	58.0	8.0	C4-S3
Sec. 15	"	"	Arthur Burgher	9/63	800	300	E. Mesa	I	84002	1.7	931	107	16	180	318	98	0	190	14	54.1	4.1	C3-S1
Sec. 17	"	"	SRVWUA	2/59	705	347	---	I	21455	1.5	740	62	22	193	316	49	0	190	4	62.9	5.5	C3-S2
Sec. 22	"	"	Boyd Lisonbee	6/61	---	---	---	I	78417	1.1	639	21	5	197	244	65	2	102	3	85.4	8.6	C3-S2
Sec. 26	"	"	Jim Turner	3/59	---	---	---	I	72820	1.1	734	39	4	207	240	110	2	129	--	80.0	8.5	C3-S2
Sec. 26	"	"	A. E. Cain	12/59	1000	300	---	I	74670	1.2	655	23	7	194	236	75	0	117	3	83.0	9.4	C3-S2
Sec. 31	"	"	McElroy	7/51	---	---	---	I	C2839	1.6	1136	83	34	246	370	110	0	271	22	60.4	5.8	C3-S2
T.1N., R.7E.																						
Sec. 33	"	"	Edwin M. LeBaron	6/51	702	---	---	I-D	C2813	0.4	281	8	0	77	34	20	0	139	3	89.4	7.5	C2-S2
T.1N., R.15E.																						
Sec. --	Claypool	Gila	R. B. Rawlinson	5/62	200	100	---	I-D	80519	0.8	589	97	25	32	22	208	0	202	3	17.0	0.7	C3-S1
T.2N., R.1E.																						
Sec. 1	Youngtown	Maricopa	SRVWUA	7/59	---	---	3	I	73777	1.0	493	52	33	60	162	65	1	120	--	32.8	1.6	C3-S1
Sec. 2	"	"	Q. J. Orr	8/62	---	---	Youngtown Reservoir	I-D	81031	0.4	274	20	22	23	26	18	0	156	9	26.5	0.8	C2-S1
Sec. 4	Phoenix	"	Roosevelt Irrigation District	9/63	---	---	2½E,12N	I	83604	0.9	539	76	30	47	151	48	T	156	31	24.4	1.2	C3-S1
Sec. 8	"	"	"	9/63	---	---	2E,11N	I	83606	1.0	621	79	49	63	196	70	5	127	32	28.0	1.4	C3-S1
Sec. 9	"	"	Dean Stanley	8/60	400	100	---	I	76969	1.1	749	103	58	20	30	250	0	278	10	81.0	0.3	C3-S1
Sec. 15	"	"	SRVWUA	7/59	540	213	---	I	21587	1.6	883	135	66	81	294	168	0	157	62	22.4	1.5	C3-S1
Sec. 23	"	"	Floyd Smith	6/50	---	---	---	I	C1906	2.4	1673	210	101	180	460	400	0	249	73	29.5	2.6	C4-S1
Sec. 26	"	"	Fred Carlton	4/51	---	---	---	---	C2577	1.9	1321	165	135	82	610	200	0	129	--	15.5	1.2	C3-S1
Sec. 27	"	"	Dean Stanley	8/60	600	100	---	I	76970	1.5	1068	141	68	64	60	375	0	352	8	18.1	1.2	C3-S1
Sec. 28	"	"	Marvin Skousen	9/51	---	---	---	I	C2930	3.6	2543	158	56	637	960	210	0	522	--	69.0	11.0	C4-S3
Sec. 29	"	"	Dean Stanley	8/60	250	100	---	I	76971	1.4	1026	127	82	48	56	425	0	268	20	13.7	1.4	C3-S1
Sec. 29	"	"	Floyd Smith	3/50	---	---	---	I	C1683	1.1	755	90	38	91	192	100	0	210	39	34.2	2.0	C3-S1
Sec. 34	Tolleson	"	A. Conovaloff	9/60	680	175	---	I	77103	1.4	820	82	76	67	257	110	0	129	99	22.1	1.4	C3-S1
Sec. 36	"	"	SRVWUA	8/60	700	211	---	I	21877	1.7	929	90	55	158	343	86	0	149	124	43.1	3.2	C3-S1
T.2N., R.2E.																						
Sec. 3	Glendale	"	SRVWUA	1/59	620	247	---	I	21411	1.2	614	88	60	43	184	58	0	140	112	16.6	0.8	C3-S1
Sec. 9	"	"	Bodine Prod. Co.	9/54	---	---	1	I	C5198	1.5	1041	165	49	92	312	100	0	204	119	24.5	1.6	C3-S1
Sec. 27	"	"	SRVWUA	3/59	700	255	---	I	21527	1.8	955	68	52	213	365	100	0	181	68	54.7	4.7	C3-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description		Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC x 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.2N., R.3E.																							
NW¼,NE¼	Sec. 5	Phoenix	Maricopa	C. A. Stauffer	9/60	382	177	---	I	77024	1.5	1132	78	20	294	250	170	0	319	14	69.8	7.8	C3-S2
	Sec. 7	"	"	SRVWUA	12/54	200	139	---	I	-----	3.0	1742	81	81	465	574	210	0	584	43	65.3	8.7	C4-S3
	Sec. 9	"	"	Beverly Manor Improvement Association	11/56	620	200	---	I	372-W	1.1	1092	21	30	225	298	94	0	425	--	70.0	7.3	C3-S2
	Sec. 14	"	"	Arizona Biltmore	12/58	---	---	---	I-D	72311	1.4	1000	76	42	227	248	100	T	307	--	57.6	6.5	C3-S2
NW¼	Sec. 14	"	"	"	12/58	---	---	---	I-D	72312	1.4	952	43	10	244	250	100	0	305	--	78.1	7.4	C3-S2
	Sec. 36	"	"	SRVWUA	5/55	167	35	---	I	20189	3.9	2476	63	50	759	525	773	0	502	59	81.9	17.0	C4-S4
T.2N., R.4E.																							
	Sec. 1	Scottsdale	"	J. T. Jackson	----	---	---	2	I	C3970	1.9	1328	143	68	178	320	270	0	227	122	37.9	6.9	C3-S2
	Sec. 1	"	"	"	5/54	525	---	1	I	C4904	1.4	972	83	19	203	250	130	0	220	67	60.4	5.3	C3-S2
	Sec. 1	"	"	"	2/55	260	120	---	I	C5368	1.0	682	38	38	124	176	70	0	210	26	51.4	3.4	C3-S1
	Sec. 2	"	"	Bert Patterson	7/52	---	---	---	I	C3527	1.1	761	38	41	150	234	60	0	234	4	55.3	4.0	C3-S1
	Sec. 3	"	"	Elmer Ditty	4/61	550	200	---	IDS	77926	0.5	309	19	21	36	20	23	4	186	--	36.7	1.4	C2-S1
	Sec. 10	"	"	H. W. Dixon	7/50	---	---	---	I	C2069	3.3	2316	248	158	212	612	630	0	246	--	26.6	2.6	C4-S1
	Sec. 10	"	"	John C. Adams	12/52	---	---	---	I-D	C3897	0.5	340	30	15	42	30	10	0	204	9	40.0	1.6	C2-S1
	Sec. 12	"	"	R. Mayer	4/60	900	240	1W	I	75965	0.8	494	33	18	92	102	35	2	210	2	56.0	3.3	C2-S1
	Sec. 12	"	"	"	4/60	900	240	2E	I	75966	0.8	495	31	20	92	102	36	2	210	2	56.0	3.2	C2-S1
	Sec. 15	"	"	R. K. Neumann	5/60	600	430	---	I	76351	2.8	2023	181	139	258	463	550	0	204	228	35.4	3.5	C4-S1
	Sec. 22	"	"	John Ahlers	4/51	198	---	---	I	C2626	1.5	1033	113	71	106	234	250	0	215	44	28.6	2.0	C3-S1
	Sec. 22	"	"	Arcadia Water Co.	8/61	610	365	7	I	78819	1.2	638	63	50	96	188	122	0	195	24	36.5	2.2	C3-S1
	Sec. 22	"	"	"	8/61	700	367	8	I	78820	0.6	427	29	23	64	75	34	0	195	7	45.6	2.0	C2-S1
	Sec. 22	"	"	"	8/61	700	362	9A	I	78821	0.5	318	20	24	31	22	14	0	200	7	31.3	1.0	C2-S1
	Sec. 22	"	"	"	8/61	655	371	11	I	78822	2.0	1187	130	104	77	346	275	0	193	62	18.3	1.2	C3-S1
	Sec. 22	"	"	"	8/61	643	377	12	I	78823	1.0	612	57	45	60	113	103	0	205	29	28.5	1.5	C3-S1
	Sec. 22	"	"	"	8/61	-----Reservoir-----			I	78824	0.8	536	43	35	67	103	74	0	198	16	36.8	1.8	C3-S1
	Sec. 25	"	"	SRVWUA	6/61	550	330	---	I	22130	1.1	545	44	29	173	218	47	14	129	6	69.1	6.0	C3-S2
	Sec. 26	"	"	W. Hodges - Paradise Valley Country Club	9/58	---	---	---	I	71771	0.5	320	26	21	30	28	T	0	215	--	30.3	0.8	C2-S1
	Sec. 29	Phoenix	"	M. D. Moeller	4/61	49	12	---	I	77831	2.4	1324	10	28	412	508	68	5	242	51	86.5	2.4	C4-S4
	Sec. 33	"	"	L. C. Smith	3/59	---	---	---	I	72724	1.4	988	80	57	160	329	100	0	163	99	44.5	3.3	C3-S1
	Sec. 35	"	"	SRVWUA	8/60	660	227	---	I	21886	1.4	724	65	57	126	240	115	0	230	8	40.8	2.8	C3-S1
T.2N., R.5E.																							
	Sec. 5	Scottsdale	"	Indian Bend Country Club	2/62	500	---	---	I-D	80029	0.7	454	15	7	116	79	36	0	195	5	79.2	6.0	C2-S1
T.2N., R.6E.																							
	Sec. 31	Phoenix	"	H. F. McElroy	9/58	500	240	---	I	71834	1.9	1340	118	38	272	445	155	0	312	--	56.8	5.5	C3-S2
T.2N., R.14E.																							
	Sec. 24	Globe	Gila	Bill Byrne	5/61	120	---	---	I-D	78207	2.1	2167	330	123	146	53	1500	0	15	2	19.2	2.6	C4-S1
T.3N., R.1E.																							
	Sec. 1	Peoria	"	SRVWUA	2/59	1633	324	---	I	21451	0.8	399	62	22	52	111	50	0	138	34	31.4	1.5	C3-S1
	Sec. 3	"	"	Walter Burnett	4/55	---	---	---	I	C5546	0.9	629	98	30	51	168	50	0	200	32	23.1	1.2	C3-S1
	Sec. 3	"	"	"	4/55	---	---	---	I	C5547	0.7	462	53	30	39	96	20	0	181	43	24.9	1.1	C3-S1
	Sec. 4	Marinette	"	J. G. Boswell	7/59	1000	344	4-A	I	73743	0.5	349	36	16	44	46	44	4	144	19	52.3	1.6	C2-S1
	Sec. 4	"	"	"	7/59	910	345	4-B	I	73744	0.5	305	31	23	26	52	38	4	112	19	38.4	0.8	C2-S1
	Sec. 5	"	"	"	7/59	1176	350	5-A	I	73745	0.5	347	39	17	36	46	34	2	151	22	24.6	1.1	C2-S1
	Sec. 5	"	"	"	7/59	516	353	5-B	I	73746	0.5	301	34	18	28	44	44	4	107	22	27.8	0.7	C2-S1
	Sec. 5	"	"	"	7/59	458	347	5-C	I	73747	0.5	307	35	20	24	42	40	2	127	17	23.6	0.6	C2-S1
	Sec. 6	"	"	"	7/59	1200	316	6-B	I	73748	0.5	337	45	16	27	34	34	2	159	14	23.5	0.7	C2-S1
	Sec. 7	"	"	"	7/59	478	324	7-A	I	73749	0.5	318	36	23	24	50	42	2	122	19	22.1	0.7	C2-S1
	Sec. 7	"	"	"	7/59	1000	325	7-B	I	73750	0.5	301	37	17	25	40	40	4	124	14	25.2	0.8	C2-S1
	Sec. 8	"	"	"	7/59	474	336	8-C	I	73751	0.7	383	50	20	36	74	52	4	115	32	27.6	1.0	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.3N., R.1E.																						
Sec. 8	Marinette	Maricopa	J. G. Boswell	7/59	760	318	8-D	I	73752	0.5	340	38	15	42	52	36	4	134	19	36.5	1.4	C2-S1
Sec. 9	"	"	"	7/59	1006	316	9-A	I	73753	0.5	335	34	14	43	38	48	4	142	11	39.0	1.5	C2-S1
Sec. 9	"	"	"	7/59	---	---	9-B	I	73754	0.6	389	38	18	53	70	60	4	122	23	40.0	1.8	C2-S1
Sec. 17	"	"	"	7/59	1000	302	17-A	I	73755	0.5	368	40	16	45	60	36	0	151	20	37.0	1.6	C2-S1
Sec. 17	"	"	"	7/59	630	272	17-C	I	73756	0.7	409	48	26	39	91	52	4	129	20	27.5	1.2	C2-S1
Sec. 17	"	"	"	7/59	1006	306	17-D	I	73757	0.4	266	34	16	27	32	36	4	139	8	27.7	0.9	C2-S1
Sec. 18	"	"	"	7/59	634	295	18-A	I	73758	0.6	431	51	22	41	62	50	0	176	29	29.4	1.2	C2-S1
Sec. 18	"	"	"	7/59	900	331	18-B	I	73759	0.4	285	30	22	18	30	37	2	137	9	18.8	0.7	C2-S1
Sec. 19	"	"	"	7/59	750	325	19-B	I	73760	0.4	301	31	17	31	34	44	4	129	11	31.4	1.1	C2-S1
Sec. 20	"	"	"	7/59	602	250	20-D	I	73761	0.7	457	50	29	50	117	64	2	127	18	30.6	1.4	C2-S1
Sec. 26	"	"	SRVWUA	4/59	703	276	---	I	21532	1.2	618	76	47	80	221	82	0	141	43	31.1	1.8	C3-S1
Sec. 29	"	"	J. G. Boswell	7/59	1000	398	29-A	I	73762	0.5	353	35	17	41	28	60	4	159	9	36.2	1.5	C2-S1
Sec. 32	"	"	L. M. Heaslet	3/50	240	65	---	I	C1736	1.0	663	60	23	118	162	110	0	156	34	50.2	3.4	C3-S1
Sec. 32	"	"	Sutton Bros.	11/57	---	---	---	---	457-W	0.7	515	47	31	58	103	0	0	171	105	33.8	1.6	C2-S1
T.3N., R.2E.																						
Sec. 1	Phoenix	"	John Jacobs Farms	9/50	---	---	14	I	C2246	0.6	443	45	23	40	26	10	0	251	48	29.6	1.3	C2-S1
Sec. 2	"	"	Frank Marisch	10/58	1000	410	---	I	72022	0.4	293	22	19	31	24	13	4	152	17	33.6	1.0	C2-S1
Sec. 2	"	"	John Jacobs Farms	9/50	---	---	8	I	C2243	0.5	363	38	15	41	36	10	0	190	33	36.2	1.5	C2-S1
Sec. 2	"	"	"	9/50	---	---	9	I	C2244	0.5	343	30	15	44	36	10	0	190	18	41.2	1.7	C2-S1
Sec. 4	"	"	J. L. Quamme	1/50	900	---	---	I	C1603	0.5	337	15	8	70	30	10	0	198	6	68.4	3.7	C2-S1
Sec. 6	Valley View	"	Valley View Farms	12/56	700	340	4	I-S	376-W	0.5	318	32	13	41	50	15	0	166	--	40.0	1.8	C2-S1
Sec. 11	Phoenix	"	John Jacobs Farms	9/50	---	---	10	I	C2245	0.5	372	38	15	45	44	10	0	193	27	38.4	1.6	C2-S1
Sec. 12	"	"	"	9/50	---	---	1	I	C2237	0.6	432	45	19	47	38	30	0	210	43	32.4	1.5	C2-S1
Sec. 12	"	"	"	9/54	1800	---	---	I	C5199	0.6	419	38	19	58	66	40	0	178	20	42.0	2.1	C2-S1
Sec. 13	"	"	"	9/50	---	---	3	I	C2238	0.6	396	38	19	41	24	10	0	220	44	34.0	1.4	C2-S1
Sec. 19	Peoria	"	Fred Joy	10/55	---	---	---	I	C5910	1.0	688	75	53	64	196	90	0	137	73	25.5	1.5	C3-S1
Sec. 20	"	"	SRVWUA	5/63	1200	358	---	I	22540	0.8	453	46	26	89	119	52	0	200	22	46.5	2.5	C3-S1
Sec. 22	Deer Valley	"	Olin S. White	4/50	490	---	---	I	C1751	0.6	412	30	15	63	28	30	0	234	12	50.0	2.4	C2-S1
Sec. 24	Phoenix	"	John Jacobs Farms	9/50	---	---	4	I	C2239	0.8	528	75	30	37	110	40	0	185	51	20.6	2.6	C3-S1
Sec. 24	"	"	Isabell Ranch	5/54	---	---	---	I	C4913	0.6	393	38	23	40	52	10	0	188	42	31.3	1.4	C2-S1
Sec. 26	"	"	SRVWUA	2/60	1402	302	---	I	21716	1.0	543	68	51	52	157	76	0	131	74	22.9	1.3	C3-S1
Sec. 26	"	"	John Jacobs Farms	9/50	---	---	5	I	C2240	0.8	546	68	34	52	146	55	0	149	42	26.8	1.3	C3-S1
Sec. 26	"	"	"	9/50	---	---	6	I	C2241	0.6	441	53	23	40	69	15	0	193	49	27.7	1.1	C2-S1
Sec. 27	"	"	"	9/50	---	---	7	I	C2242	0.7	504	60	26	48	94	20	0	161	95	28.7	1.4	C2-S1
Sec. 28	"	"	Tanita Farms	9/54	---	---	---	I	C5196	1.0	679	53	26	132	176	170	0	122	--	55.9	3.7	C3-S1
Sec. 31	Glendale	"	Essley & Hildreth	5/57	---	---	---	---	68534	0.5	314	30	14	37	32	30	0	171	--	37.8	1.5	C2-S1
Sec. 33	Peoria	"	Smith Ranch Enterprises	4/55	802	---	---	I	C5556	1.9	1165	158	83	97	366	180	0	200	84	22.2	1.6	C3-S1
T.3N., R.3E.																						
Sec. 24	Phoenix	"	Isabell Ranch	5/54	---	---	---	I	C4913	0.6	393	38	23	40	52	10	0	188	42	31.8	1.3	C2-S1
Sec. 30	"	"	SRVWUA	2/60	968	307	---	I	21741	1.7	916	118	76	93	299	149	0	203	81	24.9	1.7	C3-S1
T.3N., R.4E.																						
Sec. 2	Scottsdale	"	George Ellis	6/50	1800	---	---	I	C1935	0.6	426	30	23	55	40	10	0	268	--	41.8	1.9	C2-S1
Sec. 6	Phoenix	"	H. L. Voss	3/50	670	---	---	I	C1708	0.5	337	30	11	48	34	10	0	198	6	46.5	2.0	C2-S1
Sec. 7	Cactus	"	L. C. Whitney	10/50	375	---	---	I-D	C2265	0.5	349	23	19	43	12	10	0	237	5	40.8	1.5	C2-S1
Sec. 17	Scottsdale	"	R. Mayer	4/60	900	240	---	I	75965	0.8	494	33	18	92	102	35	2	210	2	56.0	3.3	C2-S1
Sec. 26	"	"	Gainey Ranch	11/61	400	320	---	I	79152	0.4	337	13	15	59	24	11	0	212	3	57.9	2.5	C2-S1
Sec. 29	Phoenix	"	A. Bergero	4/50	1000	---	---	I-D	C1753	0.5	370	23	19	51	24	10	0	234	9	45.0	1.9	C2-S1
Sec. 32	"	"	H. L. Voss	3/50	860	---	---	I	C1706	0.6	392	15	8	84	26	10	0	237	12	72.3	3.9	C2-S1
Sec. 32	"	"	"	3/50	860	---	---	I	C1707	0.5	363	15	8	75	26	10	0	217	12	69.8	3.5	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.3N., R.4E.																						
Sec. 34	Scottsdale	Maricopa	M. L. Folkman	6/51	350	---	---	I	C2737	0.5	332	23	11	58	16	5	0	212	7	55.2	2.6	C2-S1
Sec. 34	"	"	"	6/51	350	---	---	I	C2738	0.5	347	23	19	43	18	5	0	234	5	40.8	1.6	C2-S1
T.3N., R.13E.																						
Sec. 11	Globe	Gila	Roy Tucker	4/51	---	---	---	I-S	60579	0.7	479	113	8	5	24	80	0	249	--	3.4	0.1	C2-S1
T.4N., R.1E.																						
Sec. 6	Phoenix	Maricopa	H. Collier	6/57	---	---	1	---	68700	4.3	2983	158	151	648	1080	560	T	386	--	58.1	8.6	C4-S3
Sec. 12	"	"	Isabell - Hartner	6/60	2000	450	---	I	76514	0.5	364	34	13	47	24	24	0	210	12	42.4	1.9	C2-S1
Sec. 14	"	"	Fletcher Farms	8/58	1280	650	2	I	71508	0.4	304	23	14	39	16	10	0	202	--	42.5	2.5	C2-S1
Sec. 22	"	"	"	8/58	1650	500	3	I	71509	0.5	338	36	20	23	24	25	0	210	--	22.4	0.7	C2-S1
Sec. 23	"	"	"	8/58	800	500	1	I	71507	0.5	329	33	20	26	20	20	0	210	--	25.5	0.9	C2-S1
Sec. 29	Marinette	"	J. G. Boswell	7/59	728	376	29B	I	73763	0.5	335	33	18	35	26	44	4	169	6	33.0	1.3	C2-S1
Sec. 32	"	"	"	7/59	1200	361	32A	I	73764	0.4	283	26	17	29	26	30	4	144	7	32.1	1.1	C2-S1
Sec. 32	"	"	"	7/59	1000	373	32B	I	73765	0.4	245	30	13	19	24	25	2	124	8	24.2	0.8	C2-S1
Sec. 33	"	"	"	7/59	1000	381	33A	I	73766	0.4	314	28	16	39	34	35	4	144	14	38.4	1.5	C2-S1
Sec. 33	"	"	"	7/59	1000	374	33B	I	73767	0.5	296	27	21	28	34	42	4	122	18	28.3	0.9	C2-S1
Sec. 33	"	"	"	7/59	1200	355	33C	I	73768	0.4	290	29	18	27	28	30	4	144	10	28.5	0.8	C2-S1
T.4N., R.2E.																						
Sec. 6	Deer Valley	"	H. L. Von	7/57	2230	---	---	---	68892	0.8	557	39	13	126	140	105	0	134	--	64.2	4.5	C3-S1
Sec. 7	"	"	Cr. F. H. Pilcher	1/52	---	---	---	I-D	C3179	0.5	325	23	11	52	24	20	0	195	--	52.4	2.3	C2-S1
Sec. 16	Phoenix	"	Frank Marisch	10/58	1000	410	1	I	72020	0.5	328	22	12	51	18	19	0	198	5	51.5	2.2	C2-S1
Sec. 22	"	"	"	10/58	1000	410	2	I	72021	0.5	328	24	16	41	18	13	0	202	2	41.3	2.2	C2-S1
Sec. 26	Glendale	"	Wayne Hall	10/55	750	---	---	I-D	C5932	0.5	322	38	11	33	20	10	0	210	--	33.8	1.3	C2-S1
Sec. 32	Valley View	"	Valley View Farms	12/56	900	340	2	I-S	374-W	0.4	319	18	12	55	30	T	0	204	--	56.0	2.5	C2-S1
Sec. 32	"	"	"	12/56	1300	340	1	I-S	375-W	0.5	325	16	14	55	40	T	0	200	--	54.0	2.3	C2-S1
T.4N., R.3E.																						
Sec. 26	Paradise Valley	"	C. L. Keller	7/52	---	---	---	I	C3526	0.6	415	45	23	50	98	50	0	149	--	34.4	1.6	C2-S1
T.5N., R.2E.																						
Sec. 11	Phoenix	"	W. Bishop	9/51	---	---	---	I-D	C2928	3.6	2509	30	8	718	260	180	38	1274	1	93.3	30.0	C4-S4
T.5N., R.5E.																						
Sec. 27	Paradise Valley	"	G. M. Sollenberger	1/58	---	56	---	I	69750	1.0	670	79	23	67	35	56	0	410	--	33.2	1.7	C3-S1
T.5N., R.13E																						
Sec. 11	Globe	Gila	Roy Tucker	4/51	---	---	---	I-S	60579	0.7	479	113	8	5	24	80	0	249	--	3.3	0.1	C2-S1
Sec. 29	"	"	C. H. Tanner	11/49	---	---	---	I	56089	0.7	451	53	0	71	34	T	0	293	--	53.8	2.7	C2-S1
T.6N., R.1E.																						
Sec. 21	Lake Pleasant	Maricopa	Maricopa County Municipal Water Conservation District #1	6/63	Surface		Lake	I	82645	0.9	675	47	31	108	90	109	0	288	2	49.1	3.1	C3-S1
T.6N., R.3E.																						
Sec. 15	Cave Creek	"	A. H. Vaughn	4/51	212	---	---	I-D	C2621	0.8	588	53	34	52	362	22	0	417	2	29.4	9.5	C3-S2
T.6N., R.4E.																						
Sec. 22	"	"	E. L. Gates	2/61	237	---	---	I-D	77431	0.7	562	50	20	74	37	33	0	344	4	43.1	2.7	C2-S1
Sec. 28	"	"	B. A. Gillespie	12/59	140	---	---	IDS	74669	2.7	1657	21	18	532	540	270	0	268	25	89.7	19.9	C4-S4

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

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T.7N., R.27E.																						
Sec. 1	Springerville	Apache	Round Valley Water Users' Association	6/63	---	---	Tunnel	I	82552	0.1	92	12	2	10	8	3	0	56	1	37.1	0.8	C1-S1
Sec. 1*	"	"	"	6/63	---	---	Bunch	I	82553	0.1	94	11	3	10	6	5	0	59	1	35.5	0.8	C1-S1
T.7N., R.28E.																						
Sec. 6**	"	"	"	6/63	---	---	River	I	82551	0.1	101	11	2	15	8	7	0	56	2	48.0	1.3	C1-S1
T.8N., R.29E.																						
Sec. 4	St. Johns	"	Francis Day, Sr.	3/54	216	48	---	I	63900	3.7	2604	465	11	336	360	1149	0	283	--	37.6	4.1	C4-S2
T.9N., R.13E.																						
Sec. 10	Young	Gila	Albert Cline	9/61	115	40	---	I-D	78983	0.5	360	61	17	6	14	6	0	254	2	6.3	1.8	C2-S1
T.9N., R.22E.																						
Sec. 25	Lakeside	Navajo	T. Harrington	9/52	---	---	---	I-D	62294	0.9	622	113	0	32	12	250	0	215	--	19.7	0.9	C3-S1
Sec. 25	"	"	L. B. Allen	6/57	140	69	---	---	68741	0.5	324	53	9	18	12	0	0	232	--	18.7	0.6	C2-S1
$S\frac{1}{2}$,$S\frac{1}{2}$ Sec. 25	"	"	C. B. Maguire	9/56	---	---	Spring	---	67245	0.2	126	14	7	7	T	0	0	98	--	27.8	0.6	C1-S1
T.11N., R.22E.																						
Sec. 10	Show Low	"	W. R. Bourdon	7/61	100	30	---	IDS	78511	0.3	211	23	13	13	8	5	0	149	--	20.4	0.5	C2-S1
T.11N., R.28E.																						
Sec. 9,10,15	Lyman Dam	Apache	St. Johns Water Works Co.	4/58	---	---	---	I	SHL30428	0.4	261	31	14	35	8	24	-	---	2	36.0	1.4	C2-S1
T.11$\frac{1}{2}$N., R.4E.																						
Sec. 5	Dugas	Yavapai	C. H. Teskey	5/61	---	---	Spring	I-S	78280	0.6	503	49	38	29	38	7	0	342	--	18.4	0.8	C2-S1
T.12N., R.6E.																						
Sec. --	Tempe	Maricopa	C. W. Fitzgibbon	9/58	---	---	River	I	71694	0.9	655	58	37	74	53	140	0	293	--	35.1	1.9	C3-S1
Sec. --	"	"	"	9/58	---	---	---	I-D	71695	1.3	906	73	40	127	97	130	0	439	--	44.2	3.0	C3-S1
T.12N., R.21E.																						
Sec. 1	Taylor	Navajo	Sunrise Dairy	5/50	120	40	---	IDS	58990	1.7	1187	78	34	210	40	348	19	477	--	57.6	5.1	C3-S2
Sec. 24	"	"	Show Low-Silver Creek Irrigation District	8/55	250	0	---	I	257-W	0.4	373	35	24	28	18	T	T	268	--	24.0	1.3	C2-S1
T.12N., R.22E.																						
Sec. 19	"	"	Leo McCleve	7/56	---	---	---	I	342-W	0.5	325	48	14	14	10	60	0	159	--	15.0	0.3	C2-S1
Sec. 33	"	"	Love Lake Spring	8/55	---	---	Spring	I-S	260-W	0.5	349	33	20	32	20	T	T	244	--	30.0	1.1	C2-S1
T.12N., R.28E.																						
Sec. 18	St. Johns	Apache	Lyman Irrigation	8/57	---	---	---	I	69064	3.6	2520	291	58	311	490	650	0	720	--	41.1	4.4	C4-S2
Sec. 19	"	"	T. Zamora	1/51	300	60	---	I	59938	2.7	1879	262	34	268	352	534	0	429	--	42.2	4.1	C4-S2
T.13N., R.1E.																						
Sec. 3	Dewey	Yavapai	M. Bechtel	9/56	---	---	---	IDS	67264	0.5	333	45	6	39	36	T	0	207	--	38.2	1.5	C2-S1
T.13N., R.5E.																						
Sec. 6	Camp Verde	"	E. Wingfield	6/54	---	---	---	I	64346	2.7	1907	308	8	255	84	952	0	300	--	40.8	3.5	C4-S1
Sec. 6	"	"	J. Paulsgrove	8/62	65	30	---	I	81005	1.1	845	33	81	78	36	125	0	490	2	29.0	1.6	C3-S1
T.13N., R.28E.																						
Sec. 13	St. Johns	Apache	Garcia Bros. Cattle Co.	8/50	850	465	---	I-S	59360	1.8	1258	120	8	242	52	412	0	420	--	61.2	6.0	C3-S1
Sec. 17	"	"	M. A. Raban	8/55	230	45	---	I-D	66133	2.2	1543	17	17	437	160	400	T	512	--	89.4	18.0	C3-S4
Sec. 27	"	"	St. Johns City Council Operators	4/54	120	---	---	I	64068	2.9	1578	428	11	49	358	510	0	222	--	8.7	0.8	C4-S1
Sec. 27	"	"	E. Thurber	5/61	150	---	---	I	78284	3.1	2489	222	80	483	410	1030	0	264	80	54.3	7.1	C4-S2

*This well is located on the boundary of T.7N., R.27E., Sec. 1 and T.8N., R.27E., Sec. 36.
**This well is located on the boundary of Sections 1 and 6.

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.13N., R.28E.																						
Sec. 27	St. Johns	Apache	St. Johns Irrigation Co.	8/57	---	---	---	I	69063	2.7	1891	131	55	418	430	650	0	207	--	62.1	7.6	C2-S1
Sec. 28	"	"	A. H. Goesling	5/61	70	60	---	I-D	78091	4.0	3198	291	108	550	218	1775	0	256	--	50.5	7.0	C4-S2
Sec. 28	"	"	"	5/61	70	60	---	I-D	78092	4.7	3381	23	4	1068	218	1775	0	293	--	96.8	:::	:::
Sec. 29	"	"	J. Rothlisberger	5/54	175	80	---	I-D	64318	2.6	1822	180	11	366	282	400	0	578	--	61.6	7.1	C4-S2
Sec. --	"	"	St. Johns Irrigation Co.	10/61	---	---	---	I	79102	1.7	1051	24	43	271	242	390	13	68	0	71.4	7.5	C3-S2
T.14N., R.3E.																						
Sec. 28	Dewey	Yavapai	C. F. Jarnigan	5/61	19	13	---	I-D	78190	0.7	558	68	22	51	32	43	0	342	--	29.7	1.4	C2-S1
T.14N., R.4E.																						
Sec. 25	Camp Verde	"	M. Davidson	8/58	---	---	---	I	517-W	9.0	7085	318	187	1682	883	3100	0	915	--	70.0	:::	:::
Sec. 25	"	"	"	1/58	72	51	---	I	453-W	8.3	5812	68	130	1566	408	2740	0	900	--	83.0	:::	:::
Sec. 25	"	"	A. Dickison Farm	11/57	300	50	---	I	451-W	17.6	12301	387	7	3609	860	6950	0	488	--	89.0	:::	:::
Sec. 25	"	"	W. E. Cox	9/56	70	48	---	I-D	67169	7.1	4974	109	50	1410	480	2100	0	825	--	86.5	:::	:::
T.14N., R.5E.																						
Sec. 24	"	"	F. L. Daly	6/58	225	25	3	IDS	505-W	0.6	667	40	34	104	41	165	0	283	--	48.0	2.9	C2-S1
Sec. 32	"	"	L. B. Bonat	3/50	---	---	---	---	57832	5.0	3483	113	0	964	464	520	0	1421	--	88.1	:::	:::
T.14N., R.21E.																						
Sec. 26	St. Johns	Apache	Jacob Barth	7/61	230	150	---	I-S	78453	1.6	1275	82	28	242	75	285	0	561	1	62.1	5.8	C3-S2
T.14N., R.25E																						
Sec. 1	Hunt Valley	"	Perry Harper	7/50	325	Artesian		IDS	59195	1.1	737	37	19	180	212	110	0	178	--	69.6	6.0	C3-S2
NW¼ Sec. 1	"	"	"	7/51	---	---	---	I-D	61002	1.1	766	83	8	164	264	69	0	178	--	59.7	4.6	C3-S1
Sec. 1	"	"	"	7/59	---	---	---	---	598-W	2.0	1206	58	33	319	513	90	T	193	--	71.0	8.3	C3-S2
Sec. 11	Springerville	"	H. Ramsey	1/62	---	---	---	---	795-W	2.2	1805	129	43	403	345	714	5	166	--	63.7	7.8	C3-S2
Sec. 11	"	"	L. Johnson	1/62	---	---	---	---	796-W	0.7	519	70	18	57	43	178	2	151	--	33.3	1.6	C2-S1
T.14N., R.26E.																						
Sec. 7	"	"	Mack Miller	4/59	---	---	---	---	569-W	4.0	2075	111	40	160	1071	320	0	373	--	44.0	3.3	C4-S2
Sec. 18	Concho	"	John Udall	1/57	340	---	---	I-D	C7324	0.7	458	38	18	74	72	80	0	176	--	48.7	2.5	C2-S1
Sec. 19	Hunt Valley	"	Harvey Platt	5/55	680	---	---	I	C5634	7.1	5071	165	45	1595	2030	760	0	476	--	85.2	:::	:::
Sec. 19	"	"	"	5/55	---	---	---	---	C5636	0.8	588	38	4	143	128	60	0	215	--	62.2	5.9	C3-S2
Sec. 19	"	"	"	5/55	---	---	---	---	C5637	0.8	532	23	11	150	176	80	1	68	--	75.0	6.5	C3-S2
Sec. 19	"	"	"	5/55	---	---	---	---	C5635	2.9	2024	68	30	620	890	160	0	256	--	82.0	15.6	C4-S4
T.14N., R.27E.																						
Sec. 1	St. Johns	"	H. B. Heap	1/59	500	20	---	I	72475	4.0	2821	278	68	709	739	500	0	527	0	61.2	9.8	C4-S3
T.14N., R.29E.																						
Sec. 7	"	"	C. H. Platt	4/61	900	Artesian		I-S	77820	2.8	2068	238	28	374	455	380	0	593	0	53.4	6.2	C4-S2
T.15N., R.3E.																						
Sec. 1	Cottonwood	Yavapai	J. A. Liggett	3/61	65	15	---	IDS	77894	0.8	623	81	48	14	31	45	10	388	6	7.0	0.4	C3-S1
Sec. 1	"	"	Leo O. Lane	4/61	100	15	---	IDS	77895	0.6	428	53	28	18	22	14	0	293	--	13.5	0.5	C2-S1
T.15N., R.4E.																						
Sec. 3	Cornville	"	Lloyd Goebel	4/59	---	---	---	I-D	73029	1.8	1252	156	62	83	67	30	0	854	0	21.8	1.4	C3-S1
T.15N., R.23E.																						
Sec. 3	Woodruff	Navajo	F. Dobell	7/58	40	---	---	I	511-W	1.3	1261	110	26	285	453	192	0	195	--	62.0	6.4	C3-S2
Sec. 3	"	"	"	5/58	---	---	---	I	484-W	1.3	1145	84	34	258	406	178	0	185	--	62.0	6.0	C3-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.15N., R.25E.																						
Sec. 1	Woodruff	Apache	P. Harper	8/58	360	6	---	I	483-W	1.3	1072	49	20	294	424	90	0	195	--	75.0	9.0	C3-S2
Sec. 34	Hunt	"	C. F. Dierking	8/57	515	115	---	S	69004	2.8	1972	90	25	582	820	260	0	195	--	79.4	13.7	C4-S4
Sec. 34	"	"	"	8/57	515	115	---	S	69005	2.7	1866	15	4	559	160	530	0	598	--	95.7	0.3	C4-S1
Sec. 34	"	"	"	8/57	515	115	---	S	69006	1.9	1326	4	T	547	36	105	12	634	--	99.1	0.1	C3-S1
Sec. 34	"	"	"	8/57	515	115	---	S	69007	1.6	1131	T	T	324	36	100	17	671	--	100.0	:::	:::
T.15N., R.29E.																						
Sec. 9	St. Johns	"	Seven V Ranches	4/50	501	Artesian		I-S	58022	5.1	3572	218	8	1035	1382	490	0	438	--	79.5	:::	:::
Sec. 17	"	"	Elmo Jarvis	7/61	485	Artesian		I-S	78445	5.8	4079	253	45	1115	1548	644	0	474	0	74.8	:::	:::
T.16N., R.2E.																						
Sec. 13	Clemenceau	Yavapai	W. Whitehead	7/58	Mine Water		---	I	71242	1.5	1031	155	83	16	41	448	0	288	--	4.5	0.2	C3-S1
T.16N., R.3E.																						
Sec. 26	"	"	"	5/53	"	---	---	I	62901	1.7	1168	202	11	142	34	562	0	217	--	35.9	2.7	C3-S1
T.16N., R.4E.																						
Sec. 35	Cornville	"	Glenn Newell	4/56	---	---	Spring	IDS	66870	1.2	840	84	40	82	60	T	0	574	--	32.2	1.9	C3-S1
T.16N., R.21E.																						
Sec. 1	Woodruff	Navajo	C. Turley	7/55	80	50	---	I	261-W	0.8	602	49	36	92	140	175	0	110	--	43.0	2.4	C3-S1
T.16N., R.22E.																						
Sec. 9	"	"	Stuart-Despain Ranch	4/58	200	70	---	I	70599	1.9	1344	115	51	260	415	308	0	195	--	53.2	5.0	C3-S2
Sec. 16	"	"	"	4/58	Lake Water		---	I	70600	1.2	864	145	27	67	15	500	0	110	--	23.5	1.4	C3-S1
Sec. 17	"	"	S. D. Allen	6/52	61	---	---	I	62039	1.2	804	90	8	145	96	238	0	227	--	54.9	3.9	C3-S1
Sec. 17	"	"	"	6/52	61	---	---	I	62040	1.3	931	120	11	140	100	218	0	342	--	46.8	3.3	C3-S1
Sec. 17	"	"	"	5/63	100	40	---	I-D	82340	1.2	901	93	34	128	94	243	0	307	2	41.0	2.9	C3-S1
T.17N., R.3E.																						
Sec. 33	Sedona	Yavapai	T. P. Sullivan	3/55	60	---	---	I	145-W	0.5	529	83	34	7	28	50	0	327	--	4.0	0.2	C2-S1
T.17N., R.6E.																						
Sec. 7	"	Coconino	Helen Varner	1/52	---	---	Spring	I-D	61586	0.7	453	98	8	9	28	T	0	310	--	6.5	0.1	C2-S1
Sec. --	"	"	George Black	7/54	550	500	---	IDS	64605	0.5	337	60	4	16	16	30	0	215	--	17.3	0.5	C2-S1
T.17N., R.11E.																						
Sec. 30	Happy Jack	"	Ernest Chilson	6/50	Anne Lake		---	I-S	59144	0.1	90	15	11	0	8	0	0	56	--	00.0	0.1	C1-S1
T.17N., R.19E.																						
Sec. 12	Holbrook	Navajo	Whiting Bros.	11/59	225	90	---	I	74449	1.1	704	45	31	134	169	120	0	205	0	54.7	3.8	C3-S1
T.17N., R.20E.																						
Sec. 3	"	"	"	8/53	320	38	---	IDS	63144	1.9	1358	120	8	338	406	290	0	195	--	68.8	8.0	C3-S2
Sec. 7	"	"	DeWitt	6/55	475	50	---	I	259-W	0.7	599	31	33	110	150	55	0	220	--	53.0	3.3	C2-S1
Sec. 8	"	"	H. Whiting	6/55	325	15	---	I	258-W	0.7	568	33	30	102	136	60	0	207	--	52.0	3.1	C2-S1
Sec. 8	"	"	John Howard	10/59	225	9	---	I	74450	1.0	594	41	31	102	144	100	0	176	0	49.0	2.8	C3-S1
Sec. 8	"	"	Whiting Bros.	11/59	250	10	---	I	74561	1.5	1039	90	59	157	180	465	0	88	T	42.2	3.1	C3-S1
Sec. 10	"	"	Municipal	8/51	100	14	---	I-D	61085	1.2	813	173	8	57	96	252	0	227	--	21.0	1.2	C3-S1
Sec. 11	"	"	Jeffers Well	8/51	180	18	D	I-D	61081	1.5	1030	188	11	117	198	296	0	220	--	33.0	2.3	C3-S1
Sec. 11	"	"	7th Day Adventists' Well	8/51	250	28	---	I-D	61082	1.4	989	188	8	111	210	248	0	224	--	19.4	2.2	C3-S1
Sec. 11	"	"	Jesse DeWitt	8/51	150	10	---	I-D	61083	2.2	1520	203	19	288	540	246	0	224	--	51.6	5.2	C3-S2
T.17N., R.21E.																						
Sec. 6	"	"	W. L. Gregory	5/53	---	---	---	IDS	62856	1.7	1158	187	4	165	152	430	0	220	--	42.5	3.3	C3-S1
Sec. 6	"	"	"	5/53	---	---	---	IDS	62857	1.6	1129	172	4	173	156	402	0	222	--	45.7	3.7	C3-S1
Sec. 6	"	"	Jim Finley	5/58	---	---	---	I-D	70900	1.5	1047	14	1	301	56	256	8	410	--	94.3	21.0	C3-S4
Sec. 7	"	"	P. S. Leopold	5/54	100	30	---	I-S	64220	3.3	2291	315	11	428	576	688	0	273	--	52.7	1.1	C4-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	$EC \times 10^3$ at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.17N., R.21E.																						
Sec. 32	Holbrook	Navajo	Country Club	2/50	250	70	---	I-D	56574	1.1	771	90	8	135	120	200	T	215	--	53.2	3.0	C3-S1
T.18N., R.16E.																						
Sec. 4	Winslow	"	R. C. Kaugman	8/51	---	---	---	I	61044	1.6	1151	60	11	334	464	136	0	146	--	78.8	10.5	C3-S3
Sec. 4	"	"	"	8/51	---	---	---	I	61045	10.0	6969	105	79	2146	3720	468	T	151	--	88.8	:::	:::
Sec. 4	"	"	"	8/51	---	---	---	I	61046	5.2	3609	105	53	1162	1760	309	0	220	--	84.0	:::	:::
T.18N., R.19E.																						
$SE\frac{1}{4},SE\frac{1}{4}$ Sec. 8	Joseph City	"	M. K. Despain	2/52	450	100	2	IDS	61706	3.6	2525	120	11	785	1146	210	0	253	--	83.1	18.0	C4-S4
Sec. 16	"	"	L. H. Wimmer	10/57	500	85	---	I	69412	5.5	3858	93	49	1211	1890	356	0	259	--	85.8	:::	:::
Sec. 16	"	"	C. M. Brinkerhoff	8/60	425	44	---	I	76846	3.2	1818	61	34	542	794	155	0	232	0	80.0	14.0	C4-S4
Sec. 16	"	"	Joseph City Irrigation	5/61	40	---	---	I	78183	3.6	2516	260	46	533	880	475	0	322	--	58.0	8.0	C4-S3
Sec. 16	"	"	Virgil Bushman	2/62	500	70	---	I	80011	2.6	1680	52	38	478	614	240	0	258	0	78.5	12.8	C4-S3
Sec. 17	"	"	Glenn Richards	9/52	---	---	---	IDS	62370	2.7	1900	83	8	562	818	186	0	243	--	83.5	16.0	C4-S4
Sec. 17	"	"	Virgil Bushman	2/62	500	70	---	I	80012	3.8	2502	286	72	481	994	485	0	171	13	50.8	6.5	C4-S2
Sec. 17	"	"	"	3/62	500	276	---	I	80126	6.0	4980	760	109	737	1277	1960	0	122	15	40.4	:::	:::
Sec. 28	"	"	W. Brinkerhoff	6/59	---	---	---	I	73372	2.3	1632	54	34	419	176	725	T	224	--	76.8	11.0	C4-S3
Sec. 28	"	"	"	6/59	---	---	Lake	I	73373	3.5	2432	60	72	643	400	1125	0	132	--	75.8	13.5	C4-S4
Sec. 28	"	"	"	6/59	---	---	Lake	I	73374	2.3	1615	58	35	406	172	700	T	244	--	75.5	10.5	C4-S3
Sec. 28	"	"	"	6/59	---	---	---	I-D	73375	4.0	2819	523	73	236	272	1500	0	215	--	24.1	2.6	C4-S1
T.18N., R.20E.																						
Sec. 33	Holbrook	"	Cephas Perkins	7/59	200	60	---	I	73786	2.3	1584	127	50	342	555	300	0	210	0	58.8	6.5	C4-S2
T.18N., R.22E.																						
Sec. 15	"	"	Jim Finley	6/58	81	15	80	I	70966	1.5	1049	11	4	297	39	276	0	422	--	93.6	19.2	C3-S4
Sec. 15	"	"	"	6/58	81	15	Twinn Mills	I	70967	2.6	1810	27	10	554	415	304	T	500	--	91.7	23.0	C4-S4
T.18N., R.23E.																						
Sec. 6	"	"	J. M. Young	11/58	187	22	---	I	72166	3.8	2639	17	3	845	640	280	0	854	--	97.0	:::	:::
Sec. 6	"	"	"	11/58	90	56	---	I	72168	1.9	1343	11	1	395	138	166	5	627	--	96.4	30.0	C3-S4
Sec. 6	"	"	"	1/59	150	90	---	I	72494	1.4	974	29	6	281	196	240	T	222	0	86.2	12.8	C3-S3
Sec. 6	"	"	"	10/62	150	30	---	I	81161	2.2	1849	40	8	551	344	455	0	450	1	90.1	21.0	C3-S4
Sec. 10	Carrizo	"	Jim Finley	3/58	132	15	---	I-D	70496	2.4	1648	50	9	441	283	284	48	532	--	85.5	15.0	C4-S4
Sec. 10	"	"	"	3/58	132	15	House	I-D	70497	1.7	1191	15	5	310	52	174	48	586	--	92.0	18.5	C3-S4
Sec. 10	"	"	"	3/58	132	15	Carrizo	I	70498	2.9	2018	24	6	644	576	328	24	415	--	94.2	30.0	C4-S4
Sec. 15	"	"	"	2/57	Flood Water R. Puerco			I	384-W	0.6	580	4	3	161	36	T	10	366	--	95.0	15.7	C2-S3
Sec. 15	"	"	"	2/57	Subsurface R. Puerco			I	385-W	0.6	580	4	4	172	54	T	17	329	--	94.0	15.0	C2-S3
Sec. 33	Holbrook	"	Arizona Land Development Corporation	8/60	35	5	---	I	76937	3.4	2116	14	9	715	736	242	10	390	0	95.5	35.0	:::
T.19N., R.8E.																						
Sec. 16	Flagstaff	Coconino	Eldred Edwards	12/58	400	78	---	I-D	72202	1.4	988	49	33	373	488	170	0	248	--	75.8	10.0	C3-S2
T.19N., R.15E.																						
Sec. 22	Winslow	Navajo	Mike O'Haco	3/59	---	---	---	I-D	72721	3.4	2411	67	43	757	1180	120	0	244	--	82.6	17.5	C4-S1
Sec. 24	"	"	Community Hospital	8/58	---	---	---	I-D	71529	1.1	738	64	44	99	162	110	0	259	--	36.4	2.5	C3-S1
Sec. 25	"	"	C. J. Shaul	8/53	---	---	---	IDS	63163	2.4	1645	90	8	419	240	455	0	429	--	77.9	11.5	C4-S3
Sec. 25	"	"	M. Haughn	3/59	---	---	---	I-D	72722	2.7	1885	48	44	576	866	200	0	151	--	80.6	11.6	C4-S3
Sec. 25	"	"	Golf Club	3/59	---	---	---	I-D	72723	2.8	1972	61	43	593	946	70	0	259	--	79.6	14.0	C4-S4
T.19N., R.16E.																						
Sec. 6	"	"	M. Stratton	10/60	68	12	---	I	695-W	2.6	1612	128	41	366	632	127	0	318	--	61.9	7.2	C4-S2
Sec. 7	"	"	Ralph Wingfield	12/59	110	80	---	I	74836	2.6	1528	113	45	344	568	158	0	298	2	61.6	7.0	C4-S2
Sec. 28	"	"	Robert Jenkins	12/58	130	48	---	I	72234	2.1	1461	94	19	377	477	260	0	234	--	72.3	9.3	C3-S3
Sec. 28	"	"	Bill Wright	6/59	90	15	---	I	73772	5.9	4114	89	70	1320	1930	400	0	305	0	85.0	:::	:::
Sec. 36	"	"	John Thompson	11/57	610	15	---	IDS	69486	5.9	4120	356	116	871	1222	1325	0	230	--	58.0	:::	:::

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	$EC \times 10^3$ at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.19N., R.18E.																						
Sec. 20	Winslow	Navajo	L. C. Jensen	7/60	100	20	---	I-D	76781	4.0	2719	197	59	677	1196	175	0	415	0	61.2	10.9	C4-S3
Sec. 33	Holbrook	"	Jim Finley	2/57	Subsurface Carrizo Wash			I	386-W	0.8	593	2	2	99	100	T	24	366	--	95.0	14.3	C3-S3
Sec. 33	"	"	Arizona Land Development Corporation	8/60	35	5	---	I	76937	3.4	2116	14	9	715	736	242	10	390	0	95.5	:::	:::
T.20N., R.19E.																						
SE¼ Sec. 10	Joseph City	"	Navajo Ranches, Inc.	11/62	70	25	1	I-D	81255	8.0	5074	186	79	1530	2120	812	0	347	0	80.8	:::	:::
T.20N., R.26E.																						
Sec. 32	Navajo	Apache	R. C. Spurlock	6/57	100	40	---	S	68722	1.5	1050	10	6	286	72	90	0	586	--	92.6	17.5	C3-S4
T.20N., R.30E.																						
Sec. --	Sanders	"	L. W. Roberts	1/58	---	165	---	IDS	69735	0.3	223	38	0	25	28	0	0	132	--	36.4	1.2	C1-S1
T.21N., R.27E.																						
Sec. 25	Chambers	"	J. A. McDonald	9/51	230	100	---	I-D	61182	1.5	1069	53	4	250	52	140	0	570	--	78.4	8.8	C3-S2
T.21N., R.28E.																						
Sec. 14	Sanders	"	M. E. Porter	9/51	160	140	---	I-D	61180	1.9	1306	248	15	112	70	536	0	325	--	26.3	1.9	C3-S1
Sec. 14	"	"	Florence Wagner	9/51	163	140	---	I-D	61183	2.3	1642	300	38	125	52	800	0	327	--	23.0	1.8	C4-S3
Sec. 14	"	"	Spencer Balcomb	9/51	141	110	---	I-D	61186	2.2	1480	263	64	72	56	696	0	329	--	14.5	1.0	C3-S1
Sec. 19	Chambers	"	Lyle McDonald	9/51	75	30	---	I-D	61176	2.0	1448	225	15	171	68	488	0	503	--	37.3	3.0	C3-S1
Sec. 19	"	"	Maria Grimes	9/51	76	35	---	IDS	61177	2.9	2012	240	15	314	68	536	0	839	--	50.7	5.3	C4-S2
Sec. 19	"	"	Ray Grimes	9/51	100	40	---	I-D	61185	2.9	1998	53	8	534	84	544	0	775	--	87.5	18.0	C4-S4
Sec. 19	"	"	J. L. McDonald	4/50	85	30	---	I-S	58914	1.7	1162	105	0	230	54	258	0	515	--	65.5	6.2	C3-S2
Sec. 20	Ganado	"	Forrest Looney	4/61	100	30	---	IDS	77685	1.6	1224	158	31	143	55	315	0	484	38	37.3	2.8	C3-S1
Sec. 22	Sanders	"	Ben Lynch Est.	4/61	125	---	---	IDS	77918	1.0	801	107	15	100	39	215	0	325	0	39.7	2.6	C3-S1
Sec. 24	Red Rock	Pinal	Yale Siminoff	3/52	405	162	---	I	61181	0.7	512	83	11	51	62	117	0	188	--	30.5	1.4	C2-S1
T.27N., R.26E.																						
Sec. 27	Ganado	Apache	Gerald Hart	9/50	---	---	---	I-D	59282	0.4	292	53	4	21	26	T	0	188	--	23.3	0.7	C2-S1
T.28N., R.18E.																						
Sec. 14	Second Mesa	Navajo	D. A. Neifert	4/60	700	---	---	I-D	75991	0.6	494	1	2	152	16	104	36	183	--	97.0	21.0	C2-S4
T.40N., R.7E.																						
Sec. 13	Lee's Ferry	Coconino	U.S.G.S.-S.W.	8/60	---	---	---	I-D	76946	3.8	2672	73	30	810	816	650	0	293	--	85.4	20.0	C4-S4
T.42N., R.8E.																						
Sec. 36	Wahweap	"	Glen Canyon National Park	11/62	703	480	---	I	81263	2.5	1926	161	58	346	198	720	0	439	4	53.9	5.9	C4-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1N., R.1W.																						
Sec. 4	Goodyear	Maricopa	J. G. Boswell	8/50	---	---	---	I	C2157	3.6	2494	323	105	343	722	620	0	381	--	37.6	4.2	C4-S2
Sec. 5	"	"	Gold Badge Farms	3/58	800	300	---	I	70383	1.9	1295	66	28	306	285	232	0	378	--	70.4	8.0	C3-S2
Sec. 6	"	"	Howard Walker	6/51	260	---	---	I	C2811	2.3	1604	233	83	171	494	370	0	224	29	28.8	2.5	C4-S1
Sec. 7	"	"	L. S. Prince	7/53	---	---	---	I	C4278	6.3	4414	285	113	1006	792	1900	0	268	50	65.0	:::	:::
SE¼,NW¼ Sec. 7	"	"	Roosevelt Irrigation District	7/60	---	---	---	I	76799	2.0	1223	101	50	238	360	340	6	107	21	53.1	4.7	C3-S1
Sec. 10	Avondale	"	Casey Abbott	5/55	---	---	---	I	C5599	4.0	2757	450	158	240	952	700	0	238	21	22.7	2.3	C4-S1
NE¼,NE¼ Sec. 10	"	"	Roosevelt Irrigation District	9/59	---	---	---	I	74188	1.4	850	142	44	68	278	135	0	173	10	21.7	1.3	C3-S1
Sec. 11	"	"	Thayer Collier	6/61	600	90	1	I	78352	1.5	908	121	53	92	282	125	0	208	27	27.8	1.6	C3-S1
Sec. 11	"	"	"	6/61	800	---	2	I	78353	1.2	714	92	42	75	222	90	0	166	27	28.8	1.5	C3-S1
Sec. 13	Cashion	"	W. E. McNeal	12/56	200	---	---	I	C7196	2.0	1404	81	29	334	364	190	0	361	45	69.3	8.3	C3-S2
Sec. 16	Goodyear	"	E. D. Ring	5/56	---	---	---	I	C6473	1.4	957	153	62	60	290	160	0	210	22	16.9	1.0	C3-S1
Sec. 17	Avondale	"	W. T. Jarnagin	3/54	---	---	---	I	C4765	1.9	1398	135	56	232	284	470	0	183	38	47.0	4.3	C3-S1
Sec. 18	"	"	P. E. Phillips	12/50	300	---	---	I	C2378	6.9	4897	345	124	1078	820	2160	0	351	19	60.5	:::	:::
Sec. 18	"	"	L. S. Prince	7/53	---	---	2	I	C4279	3.6	2496	270	105	395	572	920	5	200	29	43.7	5.3	C4-S2
Sec. 18	"	"	E. D. Ring	2/51	500	---	2	I	C2438	5.1	3588	405	113	597	726	1400	0	312	35	46.8	6.8	:::
Sec. 18	"	"	"	5/56	5-600	---	---	I	C6402	4.8	3392	330	105	633	732	1300	0	244	48	52.7	7.8	C4-S3
Sec. 18	"	"	F. A. Wilden	2/54	180	---	---	I	C4727	4.2	2948	240	83	604	580	1120	0	288	33	58.4	8.7	C4-S3
Sec. 20	Goodyear	"	C. T. Brown	10/58	108	---	---	I	524-W	3.4	2375	260	85	381	524	728	0	325	72	45.3	4.8	C4-S2
Sec. 21	"	"	H. Lageschulte	1/54	250	---	---	I-D	C4678	0.5	346	23	15	51	54	30	0	166	7	48.5	2.0	C2-S1
Sec. 22	"	"	E. D. Ring	5/56	---	---	---	I	C4894	1.4	976	15	8	302	264	150	0	215	22	90.5	16.0	C3-S3
Sec. 22	"	"	Rancho Santa Maria	10/61	350	---	1	I	79095	0.5	411	20	6	95	42	82	0	158	8	73.5	4.9	C2-S1
Sec. 22	"	"	"	10/61	300	---	2	I	79096	0.5	415	20	13	85	50	71	0	159	17	64.1	5.0	C2-S1
Sec. 23	"	"	R. L. Tyson	6/58	175	60	---	I	71074	7.8	5487	359	189	1258	1916	1192	0	573	8	62.6	:::	:::
Sec. 24	"	"	W. S. Easley	4/51	105	---	---	I	C2620	3.6	2536	105	60	654	736	370	0	576	35	73.7	12.8	C4-S4
Sec. 25	Avondale	"	W. L. Amator	5/53	---	---	1	I	C4187	2.8	1950	143	49	458	728	220	0	339	13	63.6	8.3	C4-S2
Sec. 25	"	"	"	5/53	---	---	2	I	C4188	3.4	2369	98	45	643	780	280	0	505	18	76.5	14.5	C4-S4
Sec. 25	"	"	"	5/53	---	---	3	I	C4189	4.1	2835	135	49	768	950	420	0	493	20	75.5	14.2	C4-S4
Sec. 25	"	"	L. D. Shumway	4/51	105	---	---	I	C2627	3.6	2515	90	56	670	722	390	0	549	38	77.5	14.7	C4-S4
Sec. 25	"	"	Dale Payne	5/51	150	---	---	I	C2644	3.6	2547	105	60	659	742	380	0	547	54	73.7	12.8	C4-S4
Sec. 25	Cashion	"	E. H. Shumway	2/57	---	---	1	I	C7457	5.8	4093	224	118	1019	1424	720	0	552	37	67.6	:::	:::
Sec. 25	"	"	"	2/57	---	---	2	I	C7458	2.5	1749	143	76	330	752	220	5	210	13	51.6	5.3	C4-S2
Sec. 25	"	"	"	2/57	---	---	3	I	C7459	3.9	2722	160	71	678	964	400	14	410	25	69.2	11.3	C4-S3
Sec. 25	"	"	"	2/57	---	---	4	I	C7460	1.2	868	47	20	220	304	80	0	195	2	71.3	6.7	C3-S2
Sec. 25	"	"	"	3/57	---	---	5	I	C7461	3.6	2540	121	74	626	776	410	0	508	25	69.3	11.2	C4-S3
Sec. 25	"	"	"	11/52	118	---	---	I	C3887	3.8	2676	105	60	701	748	450	0	561	51	74.9	13.5	C4-S4
Sec. 27	Avondale	"	H. H. Gibson	1/51	145	---	1	I	C2419	5.9	4117	210	143	986	1340	780	0	658	--	65.0	:::	:::
Sec. 27	"	"	J. C. Wilson	4/52	300	---	---	I-D	C3356	3.8	2654	225	11	684	908	580	0	210	36	70.9	12.0	C4-S4
Sec. 28	Goodyear	"	A. R. Petri	4/50	102	---	---	I	C1791	1.9	1327	165	60	172	384	180	0	342	24	36.2	9.7	C3-S3
Sec. 28	"	"	"	9/58	190	50	2	I	71726	4.7	3316	342	116	612	1131	704	0	376	35	50.0	7.4	C4-S3
Sec. 29	"	"	Buckeye Irrigation Co.	9/63	---	---	2A	I	83702	3.5	2120	280	88	308	795	360	0	259	30	38.7	4.1	C4-S2
Sec. 30	"	"	"	9/63	---	---	5A	I	83705	3.2	1960	240	95	282	718	360	0	235	30	38.2	3.8	C4-S2
Sec. 34	Avondale	"	"	9/63	---	---	1L	I	83694	3.1	1848	137	40	451	702	325	0	181	12	66.0	8.6	C4-S3
Sec. 34	"	"	James Trout	6/55	130	---	---	I	C5654	4.7	3344	210	135	736	1204	620	0	439	--	59.0	9.6	C4-S3
T.1N., R.2W.																						
Sec. 2	Liberty	"	W. J. Williams	2/57	---	---	1	I	C7417	1.3	895	91	37	147	244	200	0	127	49	45.6	3.3	C3-S1
Sec. 2	"	"	"	2/57	---	---	2	I	C7418	0.6	388	26	8	83	64	80	0	117	10	64.8	3.8	C2-S1
Sec. 2	"	"	"	2/57	---	---	3	I	C7419	0.9	618	61	29	91	140	120	0	117	60	42.4	2.1	C3-S1
Sec. 2	"	"	"	2/57	---	---	4	I	C7420	1.3	882	87	42	133	224	160	0	195	41	42.6	2.9	C3-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1N., R.2W.																						
Sec. 3	Liberty	Maricopa	J. F. Beasley	2/51	300	---	---	I	C2478	0.9	660	75	38	74	144	130	0	144	55	32.0	1.8	C3-S1
Sec. 8	"	"	O. E. McGinty	9/57	920	190	---	I-S	445-W	0.7	355	23	7	74	78	15	0	159	--	64.0	3.5	C2-S1
Sec. 8	"	"	"	2/62	700	230	---	I-S	803-W	1.0	678	64	31	105	151	156	0	171	--	44.3	2.8	C3-S1
Sec. 8	"	"	Roosevelt Irrigation District	11/48	---	---	10W,4N	I	C739	1.0	720	75	30	117	202	140	5	159	--	44.9	2.7	C3-S1
Sec. 8	"	"	"	9/53	---	---	"	I	C4412	2.4	1658	150	83	284	520	380	0	207	3	74.6	4.3	C4-S2
Sec. 8	"	"	"	9/56	---	---	"	I	C6855	2.0	1414	166	75	191	436	320	0	190	43	36.5	3.2	C3-S1
Sec. 8	"	"	"	9/59	---	---	"	I	74178	1.7	1020	115	55	142	340	200	0	149	19	37.7	2.6	C3-S1
Sec. 8	"	"	"	9/63	---	---	"	I	83554	2.6	1554	193	95	198	612	300	T	103	53	33.0	2.7	C4-S1
Sec. 9	Perryville	"	Max Fried	5/54	470	---	1	I	C4890	1.9	1342	150	71	185	428	320	0	156	23	37.5	3.3	C3-S1
Sec. 9	"	"	"	5/54	325	---	2	I	C4891	1.3	897	98	49	106	210	220	0	178	26	33.2	2.1	C3-S1
Sec. 13	"	"	Roosevelt Irrigation District	9/63	---	---	6S/8W,3N	I	83569	5.5	4581	484	187	748	1020	1876	4	195	67	45.0	:::	:::
Sec. 14	"	"	H. Hollingshead	6/57	---	---	---	---	68704	3.7	2587	153	153	497	770	770	0	244	--	51.7	6.6	C4-S2
Sec. 15	"	"	Roosevelt Irrigation District	9/63	---	---	9W,3N	I	83571	3.0	2081	190	90	377	612	610	2	122	78	49.2	5.6	C4-S2
Sec. 20	"	"	"	9/63	---	---	11W,3N	I	83572	4.9	3694	360	156	672	1245	975	0	181	105	48.7	7.7	C4-S3
Sec. 21	Liberty	"	Phoenix Nat'l Bank Farm Loan	4/51	167	---	---	I	C2566	2.8	1978	128	169	282	590	560	0	220	29	37.7	4.7	C4-S2
Sec. 21	"	"	L. O. Henry	3/52	---	---	---	I	C3280	4.2	2927	315	135	456	830	960	0	190	41	41.9	5.4	C4-S2
Sec. 21	"	"	J. L. Hodges	6/58	---	---	---	I	71059	1.3	992	77	35	191	227	156	0	239	17	55.3	4.5	C3-S1
Sec. 25	"	"	R. K. Cooper	3/61	430	60	1	I	77694	2.0	1079	44	13	324	453	127	0	112	6	81.2	11.0	C3-S3
Sec. 25	"	"	Buckeye Irrigation Co.	9/63	---	---	1	I	83707	3.2	2240	256	92	364	744	525	0	235	24	43.7	4.9	C4-S2
Sec. 26	"	"	J. R. Tucker	3/59	---	---	---	I	72770	4.3	2984	313	140	487	941	840	0	210	53	44.0	5.8	C4-S2
Sec. 26	"	"	Buckeye Irrigation Co.	9/63	---	---	3	I	83709	3.6	2484	264	100	429	795	670	0	196	30	46.5	5.7	C4-S2
Sec. 27	"	"	"	9/63	---	---	6	I	83710	4.1	3069	284	110	600	1000	780	2	246	47	52.9	7.6	C4-S3
Sec. 28	"	"	"	5/50	---	---	8	I	C2759	3.9	2735	225	83	587	870	660	0	305	5	65.8	11.4	C4-S3
Sec. 28	"	"	"	7/55	---	---	8	I	C5739	4.6	3206	270	98	675	1000	840	0	268	35	57.7	9.3	C4-S3
Sec. 28	"	"	"	7/58	---	---	8	I	71300	4.1	2899	263	94	585	921	760	0	276	--	54.9	8.2	C4-S3
Sec. 28	"	"	"	8/60	---	---	8	I	76906	2.4	1235	137	53	122	420	331	0	151	21	24.7	2.2	C4-S1
Sec. 28	"	"	"	9/63	---	---	8	I	83712	3.6	2461	212	83	510	816	615	4	181	40	56.0	7.5	C4-S2
Sec. 29	"	"	"	9/63	---	---	9	I	83713	4.6	3317	296	106	682	1092	830	4	254	53	55.8	8.5	C4-S3
Sec. 34	"	"	C. McArthur	2/57	---	---	---	I	387-W	2.2	3491	326	122	1074	940	700	0	329	--	64.0	:::	:::
Sec. 35	"	"	A. W. Rivers	4/52	---	---	---	I-D	C4852	3.5	2438	300	90	392	840	500	0	303	13	43.2	5.2	C4-S2
T.1N., R.3W.																						
Sec. 13	Buckeye	"	Roosevelt Irrigation District	9/63	---	---	13W,31/8N	I	83558	6.3	4570	488	259	672	1375	1600	0	78	98	39.0	:::	:::
Sec. 19	"	"	"	9/63	---	---	18W,21/2N	I	83559	7.2	4933	498	15	1210	1735	1300	T	88	87	66.8	:::	:::
Sec. 22	"	"	Sharp Bros.	2/61	---	---	Canal	I	77502	2.1	1500	118	53	289	404	228	0	376	32	55.0	5.6	C3-S2
Sec. 22	"	"	J. L. Hodges	3/52	---	---	---	I	C3281	1.0	699	53	26	140	190	160	0	112	18	56.0	4.0	C3-S3
Sec. 23	"	"	"	11/51	175	---	---	I	C3022	2.9	2054	225	113	302	670	540	0	185	19	39.0	4.1	C4-S2
Sec. 23	"	"	"	11/51	272	---	---	I	C3040	1.7	1179	75	34	271	392	110	0	283	14	64.3	6.5	C3-S2
Sec. 25	"	"	"	7/59	---	---	1	I	73775	5.9	4165	393	194	746	1320	1375	0	137	--	47.6	:::	:::
Sec. 25	"	"	"	5/51	832	---	---	I	C2704	2.0	1388	113	45	301	460	340	10	98	21	58.4	6.2	C3-S2
Sec. 25	"	"	"	2/52	---	---	1	I	C3221	1.9	1355	105	34	315	438	350	7	90	16	63.1	6.8	C3-S2
Sec. 25	"	"	"	4/58	---	---	1	I	70747	6.0	4190	382	184	775	1252	1460	0	137	--	49.5	:::	:::
Sec. 25	"	"	"	4/58	---	---	2	I	70748	7.6	5314	506	210	1000	1601	1860	0	137	--	40.0	:::	:::
Sec. 26	"	"	H. Henry	9/51	242	---	---	I	C2938	2.0	1415	135	56	270	484	340	10	120	--	50.8	4.8	C3-S2
Sec. 26	"	"	"	9/51	650	---	---	I	C2939	2.7	1908	195	23	451	776	390	0	73	--	62.8	8.2	C4-S2
Sec. 26	"	"	"	9/51	620	---	---	I	C2940	1.7	1176	135	26	105	512	300	0	98	--	33.8	2.1	C3-S1
Sec. 26	"	"	"	11/51	---	81	---	I	C3042	1.2	830	90	38	137	314	110	0	129	12	44.0	2.8	C3-S1
Sec. 26	"	"	"	7/57	---	---	---	I	C6642	4.1	2855	358	145	421	1116	670	0	117	28	38.1	4.8	C4-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1N., R.3W.																						
Sec. 26	Buckeye	Maricopa	H. Henry	7/60	748	95	---	I	76765	4.5	2976	371	162	441	1200	700	0	102	16	37.9	4.8	C4-S2
Sec. 27	"	"	Roosevelt Irrigation District	9/63	---	---	15W,11/2N	I	83576	5.5	4358	368	178	872	1408	1350	2	112	68	53.4	:::	:::
Sec. 28	"	"	"	9/63	---	---	16W,1N	I	83577	6.2	4824	368	170	996	1348	1625	4	156	78	57.2	:::	:::
Sec. 29	"	"	J. L. Hodges	4/58	---	---	---	I	71354	4.0	2776	164	48	699	680	880	0	305	--	68.3	10.7	C4-S3
Sec. 29	"	"	"	2/53	---	---	---	I	C3983	4.7	3268	300	68	546	904	1100	0	288	62	53.6	7.5	C4-S3
Sec. 31	"	"	Roosevelt Irrigation District	11/48	---	---	18W,3/4N	I	C702	6.2	4361	345	173	913	1450	1280	0	200	--	55.8	:::	:::
Sec. 31	"	"	"	9/53	---	---	"	I	C4425	6.6	4646	330	150	1037	1364	1420	0	232	113	60.9	:::	:::
Sec. 31	"	"	"	9/56	---	---	"	I	C6864	6.3	4404	315	181	915	1252	1400	0	229	112	56.5	:::	:::
Sec. 31	"	"	"	9/59	---	---	"	I	74203	5.5	3992	308	162	806	1140	1270	2	229	75	55.0	:::	:::
Sec. 31	"	"	"	9/63	---	---	"	I	83580	5.5	4324	348	175	863	1267	1426	4	137	104	58.3	:::	:::
Sec. 34	"	"	Buckeye Irrigation Co.	5/50	---	---	17	I	C1871	4.0	2813	285	68	564	850	680	0	366	--	55.4	7.8	C4-S3
Sec. 34	"	"	"	7/55	---	---	17	I	C5748	5.8	4068	270	128	952	1352	1040	0	268	58	63.3	:::	:::
Sec. 34	"	"	"	7/58	---	---	17	I	71309	5.5	3875	316	133	837	1395	960	0	234	--	57.6	:::	:::
Sec. 34	"	"	"	8/60	---	---	17	I	76915	5.8	3453	283	139	714	1292	738	0	249	48	54.7	8.6	:::
Sec. 34	"	"	"	9/63	---	---	17	I	83721	5.4	4181	320	142	906	1347	1162	0	239	65	58.8	:::	:::
Sec. 35	"	"	"	9/63	---	---	14	I	83718	5.6	4329	378	146	923	1388	1214	4	254	52	57.7	:::	:::
Sec. 36	"	"	"	9/63	---	---	12	I	83716	5.9	4484	470	106	914	1490	1190	0	256	58	55.1	:::	:::
T.1N., R.4W.																						
Sec. 7	Palo Verde	"	V. Hatcock	3/60	300	91	1	I	75842	0.5	321	34	11	40	20	41	0	164	12	47.0	1.5	C3-S1
Sec. 16	"	"	D. E. Accomazzo	3/50	345	---	---	I	C1685	0.5	337	15	4	76	24	30	0	181	7	75.3	4.5	C2-S1
Sec. 16	"	"	"	3/50	440	---	---	I	C1686	0.4	309	15	4	68	24	20	0	168	10	73.6	4.0	C2-S1
Sec. 20	"	"	Roosevelt Irrigation District	9/63	---	---	225/8W, 23/8N	I	83561	2.4	1563	120	11	412	550	360	2	73	35	72.5	9.6	C4-S3
Sec. 26	"	"	J. C. Wilson	9/54	---	---	---	I	C5188	4.7	3272	240	58	831	960	960	0	468	--	68.4	:::	:::
Sec. 27	"	"	R. Thayer	4/58	---	---	2	I	71345	5.5	3822	424	134	693	1277	1160	T	134	--	49.2	:::	:::
Sec. 27	"	"	J. Turner	5/51	300	---	---	I	C2705	5.1	3593	368	82	757	1260	860	0	222	44	56.6	9.2	:::
Sec. 27	"	"	Roosevelt Irrigation District	9/63	---	---	20W,15/8N	I	83560	7.0	4985	536	96	1066	1852	1250	0	117	65	57.2	:::	:::
Sec. 28	"	"	D & R Farms	2/59	500	---	---	I	72543	5.8	4083	382	155	776	1262	1200	0	159	149	51.4	:::	:::
Sec. 28	"	"	B. F. Youngker	4/51	400	---	---	I	C2594	2.3	1610	128	39	351	396	460	0	202	35	61.8	7.0	C4-S2
Sec. 30	"	"	Roosevelt Irrigation District	9/63	---	---	233/4W,ON	I	83586	4.7	3981	272	92	867	898	1700	4	83	65	66.4	:::	:::
Sec. 33	"	"	"	9/63	---	---	201/2W,ON	I	83584	6.4	5469	460	32	1343	1255	2180	5	112	82	69.5	:::	:::
Sec. 36	"	"	"	9/63	---	---	18W,3/4N	I	83580	5.5	4324	348	175	863	1267	1426	4	137	104	54.2	:::	:::
T.1N., R.5W.																						
Sec. 19	Tonapah	"	C. B. Ryker	7/61	1200	450	1	I	78519	0.5	365	17	7	79	34	30	0	190	8	70.6	4.5	C2-S1
Sec. 26	Palo Verde	"	W. C. Gable	3/59	800	200	1	I	72725	7.1	4979	326	163	1164	1721	1250	0	293	62	63.0	:::	:::
Sec. 26	"	"	"	3/59	800	200	2	I	72726	0.7	470	8	1	155	160	80	0	59	7	93.3	14.0	C2-S3
Sec. 26	"	"	"	3/59	800	200	3	I	72727	6.4	4506	293	147	1059	1580	1100	0	273	54	63.2	:::	:::
Sec. 27	"	"	J. Shakelford	9/60	320	---	---	I	677-W	1.2	775	59	16	165	148	208	1	178	--	62.8	4.9	C3-S1
Sec. 35	Hassayampa	"	Wilson & Wilson	4/58	---	---	2	I	71341	0.8	522	73	19	68	158	70	0	134	--	36.1	1.8	C2-S1
Sec. 35	"	"	"	4/58	---	---	1	I	71343	1.2	809	60	34	170	299	170	0	76	--	55.9	4.2	C3-S1
T.1N., R.6W.																						
Sec. 7	Wintersburg	"	E. J. Arend	9/57	---	---	---	I	C7580	1.4	971	39	8	268	248	120	T	288	--	81.8	9.3	C3-S2
Sec. 11	"	"	W. Sanderson	10/55	---	---	---	I	C5950	0.5	377	23	4	82	42	50	0	161	9	70.6	4.3	C2-S1
Sec. 23	"	"	B. F. Youngker	3/50	---	---	16	I	C1679	1.2	838	8	0	275	214	120	7	204	10	96.9	2.6	C3-S1
SW¼ Sec. 27	"	"	C. Younger	4/58	---	---	NA4	I	70635	1.0	716	19	4	223	223	110	T	137	--	88.3	13.0	C3-S3

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1N., R.6W.																						
SE¼ Sec. 27	Wintersburg	Maricopa	C. Younger	4/58	---	---	NA6	I	70637	1.1	748	12	5	225	164	122	T	220	--	90.7	13.6	C3-S3
Sec. 33	"	"	J. H. Kuykendall	7/60	---	---	3B	I	76780	1.1	568	10	5	174	168	63	0	124	24	89.2	11.3	C3-S2
Sec. 34	"	"	R. E. Wilson	4/50	1350	---	---	I-D	C1780	1.3	879	15	4	269	210	120	0	261	--	91.6	16.0	C3-S3
NW¼ Sec. 34	"	"	C. Younger	4/58	---	---	NA5	I	70636	1.2	823	15	7	251	229	131	T	190	--	89.1	13.4	C3-S3
SW¼ Sec. 34	"	"	"	4/58	---	---	NA7	I	70638	1.7	1192	18	10	363	238	368	0	195	--	90.1	17.5	C3-S4
Sec. 35	"	"	B. F. Youngker	10/51	1100	---	29	I	C3001	0.6	408	4	2	128	92	70	12	76	12	94.2	13.5	C2-S3
T.1N., R.8W.																						
Sec. 6	Tonopah	"	Jackson & Perkins	6/60	---	---	---	I	76508	0.8	567	21	9	152	126	120	2	129	8	78.9	7.4	C3-S2
Sec. 6	"	"	B. R. Porterfield	11/55	---	---	---	I	C5980	3.2	2221	8	4	693	308	360	38	810	--	97.7	47.5	:::
Sec. 6	"	"	"	3/56	284	212	---	I	C6221	7.8	5479	15	11	1783	980	1500	38	1152	--	97.8	:::	:::
Sec. 6	"	"	"	3/56	308	284	---	I	C6233	7.8	5428	8	4	1773	884	1500	48	1211	--	99.1	:::	:::
Sec. 6	"	"	"	3/56	325	308	---	I	C6234	8.0	5614	15	4	1832	940	1550	53	1220	--	98.6	:::	:::
Sec. 6	"	"	"	4/56	442	325	---	I	C6264	4.5	3170	8	4	1023	524	840	10	761	--	98.4	:::	:::
Sec. 6	"	"	"	4/56	---	384	---	I	C6305	4.1	2877	15	4	935	504	780	43	596	--	97.4	:::	:::
Sec. 6	"	"	"	4/56	---	400	---	I	C6306	4.9	3411	8	4	1117	592	920	38	732	--	98.6	:::	:::
Sec. 6	"	"	"	4/56	---	430	---	I	C6307	2.0	1363	8	0	423	208	300	29	395	--	98.0	4.2	C3-S1
Sec. 6	"	"	"	4/56	482	442	---	I	C6327	1.5	1039	8	0	348	176	240	67	200	--	97.6	35.0	:::
Sec. 6	"	"	"	4/56	500	482	---	I	C6328	1.5	1030	8	0	334	180	220	29	259	--	97.5	31.0	:::
Sec. 6	"	"	"	4/56	525	500	---	I	C6358	1.6	1128	8	0	382	196	280	77	185	--	97.8	40.1	:::
Sec. 6	"	"	"	4/56	550	525	---	I	C6359	2.0	1384	15	0	441	244	340	17	185	--	96.2	32.5	C3-S4
Sec. 6	"	"	"	4/56	575	500	---	I	C6360	2.1	1463	15	4	461	264	360	14	342	3	98.3	:::	:::
Sec. 6	"	"	E. Weeda	3/59	605	200	---	I	552-W	1.0	728	4	0	215	89	110	20	290	--	98.0	29.0	C3-S4
Sec. 7	"	"	B. Landis	8/59	800	162	---	I	601-W	1.1	688	5	3	205	113	140	12	202	--	95.0	18.0	C3-S4
Sec. 7	"	"	H. F. Kruse	11/57	---	---	---	---	69442	1.0	693	0	2	193	95	127	8	268	--	98.0	28.0	C3-S4
Sec. 11	Harquahala	"	Jackson & Perkins	5/61	750	300	1	I	78182	0.9	514	22	9	136	143	89	0	115	8	76.3	6.1	C3-S2
Sec. 12	Tonopah	"	G. Cameron	3/62	1600	---	---	I	817-W	1.0	701	22	16	176	103	188	1	195	--	76.0	6.8	C3-S2
Sec. 17	Harquahala	"	Jackson & Perkins	5/61	1020	250	---	I	78242	0.8	531	12	19	129	97	122	0	138	15	72.2	5.5	C3-S1
Sec. 19	"	"	A. Jurn	9/58	300	---	---	I	515-W	0.9	607	8	6	200	95	112	5	181	--	90.0	13.0	C3-S3
Sec. 31	Tonopah	"	G. Patrick	7/58	625	130	---	I	71204	1.3	898	13	7	262	158	160	T	298	--	90.3	15.0	C3-S3
Sec. 31	"	"	"	4/56	600	250	---	I	C6349	1.4	955	15	8	281	172	170	7	288	14	89.9	15.4	C3-S3
T.1N., R.9W.																						
Sec. 1	Harquahala	"	Jackson & Perkins	6/60	---	---	1A	I	76507	1.1	840	31	11	219	76	365	2	132	4	79.5	8.8	C3-S2
Sec. 1	"	"	Centennial Farm	5/61	1200	370	1	I	78189	1.1	817	16	18	209	119	157	0	290	8	80.0	8.5	C3-S2
Sec. 6	"	"	"	10/56	500	---	---	I-S	363-W	0.9	853	27	16	214	122	148	0	327	--	77.0	8.3	C3-S2
Sec. 6	"	"	"	5/62	1600	---	---	I	813-W	1.2	864	39	4	220	99	185	0	317	--	80.6	9.0	C3-S2
Sec. 6	"	"	"	5/62	1600	---	---	I	814-W	1.1	783	20	29	178	103	175	0	278	--	69.4	5.9	C3-S2
Sec. 7	"	"	Harqua Farms Inc.	5/55	375	242	---	I	209-W	0.9	789	25	7	207	212	150	0	288	--	83.0	9.5	C3-S2
Sec. 7	"	"	G. Cameron	3/62	1600	---	1	I	815-W	1.1	860	29	10	222	111	180	0	308	--	80.8	9.1	C3-S2
Sec. 7	"	"	"	3/62	1600	---	2	I	816-W	1.1	819	32	9	207	103	175	0	293	--	79.4	8.3	C3-S2
Sec. 11	"	"	Kruse Farms	2/59	---	---	---	I	538-W	1.2	810	10	0	248	67	300	7	178	--	96.0	23.0	C3-S4
Sec. 11	"	"	J. A. Porterfield	8/56	1000	---	---	I	C6735	1.2	840	8	0	265	68	380	7	112	13	96.7	25.0	C3-S4
Sec. 12	"	"	G. Cameron	2/59	1500	200	---	I	541-W	1.0	553	22	10	153	162	140	0	66	--	78.0	7.0	C3-S2
Sec. 12	"	"	R. Benson	1/58	1500	265	---	I-D	69751	0.9	621	25	7	163	110	182	0	134	--	79.4	7.5	C3-S2
Sec. 18	Centennial Wash	"	Garden City Farms	1/61	1700	380	---	I	77372	1.1	748	16	10	203	112	131	0	273	3	84.2	9.9	C3-S2
Sec. 20	Harquahala	"	G. Cameron	4/59	1600	300	---	I	573-W	1.1	758	21	6	206	107	140	0	278	--	85.0	10.0	C3-S2
SW¼,NW¼ Sec. 21	"	"	E. T. Weilder	9/63	1500	400	---	I	83984	1.1	722	14	5	202	94	125	0	264	18	88.7	11.6	C3-S3
Sec. 26	"	"	F. W. Timmerman	5/52	---	---	---	IDS	C3369	1.8	1236	4	0	388	132	150	58	500	4	99.7	:::	:::

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1N., R.9W.																						
Sec. 26	Harquahala	Maricopa	H. T. Grummel	9/52	1020	---	---	I	C3747	1.1	848	8	4	232	132	130	0	229	13	93.2	18.0	C3-S4
Sec. 26	"	"	"	6/53	---	---	---	I-D	C4232	1.2	734	8	4	225	132	130	10	210	12	93.0	17.0	C3-S4
T.1N., R.10W.																						
SW¼ Sec. 1	"	"	Centennial Farm	10/56	---	425	1	IDS	361-W	0.8	780	13	16	207	116	128	0	300	--	82.0	9.5	C3-S2
SW¼ Sec. 1	"	"	"	10/56	500	---	2	I-S	362-W	0.9	853	27	16	214	122	148	0	327	--	77.0	8.1	C3-S2
Sec. 1	"	"	"	3/59	1500	265	---	I	565-W	1.1	748	22	11	169	93	160	0	293	--	78.0	7.0	C3-S2
Sec. 1	"	"	"	5/62	1600	---	1	I	811-W	1.1	832	22	13	213	103	132	3	346	--	81.0	8.8	C3-S2
Sec. 1	"	"	"	5/62	1600	---	2	I	812-W	1.2	893	32	9	225	103	148	0	376	--	80.8	9.0	C3-S2
T.2N., R.1W.																						
Sec. 2	Litchfield Park	"	Goodyear Farms	4/63	926	294	2B	I	82103	1.0	586	12	5	178	171	48	6	161	5	88.8	11.0	C3-S3
Sec. 2	"	"	"	4/63	720	277	2F	I	82105	0.8	583	59	27	68	61	90	T	269	9	36.6	1.6	C3-S1
Sec. 2	"	"	"	4/59	866	243	2G	I	73009	0.8	588	74	42	52	156	140	0	124	--	23.9	1.3	C3-S1
Sec. 2	"	"	"	6/60	866	243	2G	I	76639	1.2	883	121	50	77	208	225	0	181	15	26.2	1.5	C3-S1
Sec. 2	"	"	"	9/60	866	243	2G	I	77098	1.2	725	106	50	48	201	128	0	181	11	18.1	0.9	C3-S1
Sec. 2	"	"	"	1/61	866	257	2G	I	77421	0.5	350	25	11	64	57	35	0	154	4	56.4	2.6	C2-S1
Sec. 2	"	"	"	2/62	866	257	2G	I	80141	1.0	685	93	36	65	147	145	0	186	13	27.1	1.4	C3-S1
Sec. 8	"	"	E. T. Jarnagin	6/50	---	---	---	I-D	C1909	0.5	375	30	11	61	46	10	0	217	--	52.2	4.5	C2-S1
Sec. 12	"	"	Goodyear Farms	4/59	1002	239	4AL	I	73011	0.5	353	23	12	65	55	35	0	163	--	56.8	2.7	C2-S1
Sec. 12	"	"	"	9/60	1002	239	4AL	I	77097	0.5	388	9	15	88	68	34	0	168	6	69.3	4.0	C2-S1
Sec. 12	"	"	"	1/61	1002	239	4AL	I	77423	0.4	291	23	11	43	27	19	0	161	7	47.6	1.8	C2-S1
Sec. 12	"	"	"	3/62	1002	239	4AL	I	80148	0.5	366	23	14	66	59	38	0	161	5	57.7	2.6	C2-S1
Sec. 12	"	"	"	4/63	1002	239	4AL	I	82111	0.5	360	24	15	73	33	34	0	171	10	69.1	2.2	C2-S1
Sec. 12	"	"	"	4/63	1140	190	9AL	I	82114	0.6	367	18	7	81	49	36	T	171	5	70.1	4.3	C2-S1
Sec. 14	"	"	"	4/59	---	---	14AL	I	73014	0.5	376	28	16	62	71	40	0	159	--	49.9	4.7	C2-S1
Sec. 14	"	"	"	9/60	992	182	14AL	I	77094	0.7	484	44	40	35	68	43	0	229	25	21.6	0.9	C2-S1
Sec. 14	"	"	"	1/61	720	198	14AL	I	77427	0.6	382	24	11	77	69	46	0	149	6	61.4	3.3	C2-S1
Sec. 14	"	"	"	3/62	720	288	14AL	I	80153	0.6	400	28	15	71	67	54	0	156	9	54.0	2.7	C2-S1
Sec. 14	"	"	"	4/63	992	217	14AL	I	82117	0.7	362	26	18	61	78	55	0	117	6	49.2	4.4	C2-S1
Sec. 18	"	"	Carter Company	6/59	450	250	1	I	73327	0.7	503	28	21	95	68	125	0	166	13	56.8	3.4	C2-S1
Sec. 19	"	"	Goodyear Farms	4/63	966	310	19B	I	82119	1.2	670	61	33	90	184	118	T	156	28	40.5	2.3	C3-S1
Sec. 19	"	"	"	4/63	722	293	19D	I	82121	0.9	559	32	16	123	139	65	T	166	18	64.7	4.3	C3-S1
Sec. 19	"	"	Rola Singh	8/56	500	200	---	I	349-W	0.4	350	30	16	51	72	10	0	171	--	44.0	1.8	C2-S1
Sec. 20	"	"	Goodyear Farms	4/63	729	285	20B	I	82123	0.7	442	10	7	118	82	46	T	176	3	82.3	7.0	C2-S2
Sec. 23	"	"	J. D. Walkup	10/58	400	---	---	I	72024	3.6	2500	609	16	111	108	1583	0	93	--	13.1	1.3	C4-S1
Sec. 24	"	"	Goodyear Farms	4/63	582	323	24A	I	82125	0.7	404	28	12	81	86	51	T	103	43	59.9	3.3	C2-S1
Sec. 24	"	"	Roosevelt Irrigation District	9/53	---	---	7/8W,83/4N	I	C4396	0.5	337	23	11	60	48	20	0	166	9	55.8	2.5	C4-S1
Sec. 24	"	"	"	9/56	---	---	"	I	C6841	5.0	349	30	10	54	26	40	0	181	8	50.3	2.2	:::
Sec. 24	"	"	"	9/59	---	---	"	I	74175	0.7	428	23	2	102	52	30	5	166	48	77.0	5.8	C2-S1
Sec. 24	"	"	"	9/63	---	---	"	I	83551	0.6	360	18	9	81	65	31	7	142	7	68.5	3.9	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.2N., R.1W.																						
Sec. 25	Litchfield Park	Maricopa	Roosevelt Irrigation District	9/63	---	---	1/4W,71/2N I		83614	0.6	407	26	15	77	78	38	1	151	21	57.1	3.0	C2-S1
Sec. 26	"	"	"	9/63	---	---	11/4W,73/4N I		83552	0.6	337	16	10	73	65	39	7	117	10	66.2	3.6	C2-S1
Sec. 26	"	"	Goodyear Farms	8/59	---	---	26A	I	74136	1.0	575	34	17	121	121	75	0	188	19	63.0	5.3	C3-S1
Sec. 26	"	"	"	2/60	702	160	26A	I	75477	0.9	593	45	19	114	126	92	0	181	16	56.6	3.6	C3-S1
Sec. 26	"	"	"	3/62	702	175	26A	I	80155	0.8	594	34	19	124	115	97	0	186	19	62.4	4.2	C3-S1
Sec. 26	"	"	"	4/63	702	175	26A	I	82133	0.9	543	15	24	127	139	77	4	141	16	67.2	3.0	C3-S1
Sec. 27	"	"	"	8/59	---	---	27A	I	74137	2.4	1784	183	75	262	342	440	0	454	28	42.7	4.1	C4-S2
Sec. 27	"	"	"	2/60	902	135	27A	I	75478	2.4	1805	200	89	234	370	480	0	380	52	37.0	3.5	C4-S1
Sec. 27	"	"	"	3/62	902	146	27A	I	80156	2.0	1605	163	79	218	305	393	0	405	42	39.3	3.5	C3-S1
Sec. 27	"	"	"	4/63	902	161	27A	I	82134	2.0	1281	134	65	177	290	300	1	283	25	39.0	3.1	C3-S1
Sec. 28	"	"	"	4/63	593	152	28A	I	82136	3.2	2313	266	142	258	547	625	0	425	50	30.9	4.3	C4-S2
Sec. 29	"	"	"	4/63	800	213	29A	I	82137	1.0	557	63	27	71	139	88	T	156	13	36.5	1.9	C3-S1
Sec. 30	"	"	"	4/63	762	276	30A	I	82138	1.2	658	43	27	139	224	85	T	117	23	58.2	4.3	C3-S1
Sec. 30	"	"	"	4/63	442	245	30E	I	82141	2.5	1553	202	105	159	530	358	T	171	28	27.0	2.3	C4-S1
Sec. 31	"	"	"	4/63	914	232	31A	I	82142	1.6	964	52	26	233	253	260	T	107	33	68.2	6.5	C3-S2
Sec. 31	"	"	"	4/63	766	228	31B	I	82143	3.2	2045	251	118	254	620	610	T	137	55	33.1	3.4	C4-S1
Sec. 33	"	"	"	4/63	318	124	33A	I	82145	3.6	2398	292	156	283	808	640	T	181	38	31.0	3.3	C4-S1
Sec. 33	"	"	"	4/63	926	134	33C	I	82147	3.4	2219	284	161	220	766	560	T	195	33	25.9	2.6	C4-S1
Sec. 34	"	"	"	4/63	386	147	34A	I	82148	1.6	1002	148	65	75	265	238	7	166	38	20.4	1.5	C3-S1
Sec. 34	"	"	"	4/63	1014	140	34B	I	82149	3.3	2008	354	134	86	612	395	T	352	75	11.5	1.0	C4-S1
T.2N., R.2W.																						
Sec. 9	"	"	Mary E Ranch	3/61	---	---	3	I	708-W	0.8	505	26	15	109	63	142	4	146	--	65.2	4.3	C3-S1
Sec. 10	Peoria	"	Maricopa County Water District #1	6/63	1000	430	11-10	I	82641	0.4	276	18	8	51	29	21	2	142	5	59.3	2.5	C2-S1
Sec. 22	"	"	"	6/63	492	374	13-22	I	82642	0.4	333	24	9	58	33	36	1	132	40	58.4	2.7	C2-S1
Sec. 25	Litchfield Park	"	Goodyear Farms	4/63	926	306	25A	I	82129	0.7	380	10	4	107	65	87	1	93	7	84.4	7.0	C2-S2
Sec. 25	"	"	"	4/63	578	297	25B	I	82130	1.0	576	35	14	132	143	109	T	103	40	66.3	4.8	C3-S1
Sec. 25	"	"	"	4/63	564	326	25D	I	82132	0.5	369	13	7	96	78	55	1	83	30	77.5	5.7	C2-S1
Sec. 27	Peoria	"	Maricopa County Water District #1	6/63	1000	339	15-27	I	82643	0.4	297	22	7	57	41	31	2	132	5	60.7	2.7	C2-S1
Sec. 36	Litchfield Park	"	Goodyear Farms	4/63	520	272	36A	I	82151	0.7	406	18	9	97	73	87	T	103	19	72.0	4.8	C2-S1
Sec. 36	"	"	"	4/63	1032	232	36B	I	82154	2.7	2014	104	11	539	90	1200	0	64	6	79.4	13.5	C4-S4
Sec. 36	"	"	"	4/63	648	215	36C	I	82152	1.9	1145	156	45	151	326	273	T	137	57	36.4	2.8	C3-S1
Sec. 36	"	"	"	4/63	902	254	36D	I	82153	1.1	622	54	23	100	163	85	T	107	50	48.7	2.8	C3-S1
T.2N., R.6W.																						
Sec. 4	Tonopah	"	Alm Fruit Co.	5/60	505	223	1	I-D	76341	0.7	442	21	5	109	66	84	0	149	8	76.4	5.7	C2-S1
Sec. 13	"	"	R. E. Wolf	1/52	370	---	---	I	C3105	0.5	373	15	8	81	34	10	0	217	8	71.9	4.9	C2-S1
Sec. 19	"	"	Roland Dean	5/57	---	---	---	I	C7523	0.8	582	35	11	141	152	100	0	137	6	70.2	5.5	C3-S1
Sec. 21	"	"	Jewell Turner	9/63	620	325	---	I	83982	0.7	356	17	9	74	19	91	0	137	9	66.8	3.8	C3-S1
T.2N., R.7W.																						
Sec. 1	"	"	"	9/63	900	117	---	I	83986	1.0	608	26	9	160	159	77	0	166	11	77.5	6.8	C3-S2
Sec. 14	"	"	R. E. Bruce	5/55	250	196	---	I	210-W	1.0	754	17	2	236	270	105	T	124	--	91.0	15.0	C3-S3
Sec. 22	"	"	Homer Wooley	4/53	---	---	---	I	C4111	0.6	439	8	4	120	42	80	0	183	2	87.7	9.5	C2-S2
Sec. 25	"	"	J. L. Golightly	3/58	350	180	---	I	465-W	0.9	306	32	1	59	29	104	3	78	--	61.0	2.8	C3-S1
NE¼,NE¼ Sec. 27	"	"	Jewell Turner	9/63	300	243	---	I	83987	0.6	377	9	6	91	20	52	2	195	2	80.4	5.7	C3-S1
Sec. 28	"	"	C. Younger	4/52	---	---	---	I	70632	0.7	487	19	4	124	80	55	0	205	46	80.5	6.8	C2-S2
Sec. 28	"	"	"	4/52	---	---	---	I	70633	0.6	451	16	8	110	71	51	0	195	50	77.4	6.0	C2-S1
Sec. 34	"	"	"	4/52	---	---	---	I	70634	0.7	491	21	7	124	95	68	0	176	41	77.1	6.0	C2-S1
Sec. 36	"	"	L. Michaels	6/54	---	---	---	I	C4965	0.8	582	23	4	177	212	85	0	78	3	84.3	9.5	C3-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.2N., R.8W.																						
NW¼ Sec. 31	Harquahala	Maricopa	Jackson & Perkins	6/60	---	---	---	I	76509	0.7	511	20	8	132	88	128	2	124	9	77.6	6.3	C2-S2
Sec. 31	"	"	"	6/60	---	---	3B	I	76510	1.1	687	13	4	212	182	114	2	134	26	90.3	13.8	C3-S3
Sec. 31	"	"	"	6/60	---	---	3C	I	76511	0.7	489	20	8	127	98	114	2	112	8	77.0	6.4	C2-S2
Sec. 31	"	"	"	9/60	---	---	---	I	682-W	1.0	590	10	5	184	64	105	5	117	--	89.9	12.0	C3-S3
Sec. 32	"	"	"	9/60	---	---	---	I	683-W	1.0	581	22	5	168	170	105	1	110	--	82.9	8.2	C3-S2
Sec. 33	"	"	"	9/60	---	---	---	I	684-W	0.8	468	21	9	119	98	114	5	102	--	74.4	5.8	C3-S1
T.2N., R.9W.																						
Sec. 9	"	"	F. G. Hilvert	5/59	---	---	3	I	73237	0.8	533	26	14	117	61	145	0	156	14	67.5	4.7	C3-S1
Sec. 9	"	"	Mary E Ranch	1/61	---	---	3	I	708-W	0.8	505	26	15	109	63	142	4	146	--	65.2	4.2	C3-S1
Sec. 10	"	"	F. G. Hilvert	5/59	---	---	4	I	73238	0.8	556	25	12	146	73	140	0	149	11	74.0	6.0	C3-S2
Sec. 10	"	"	"	5/59	---	---	6	I	73239	0.8	525	26	14	118	89	115	0	154	9	67.6	4.6	C3-S1
Sec. 10	"	"	Mary E Ranch	1/61	---	---	4	I	709-W	0.8	521	25	14	119	80	133	4	146	--	68.3	5.0	C3-S1
Sec. 11	"	"	"	1/61	---	---	2	I	707-W	0.9	521	28	19	111	110	103	4	146	--	61.8	4.0	C3-S1
Sec. 11	"	"	F. G. Hilvert	5/59	---	---	2	I	73236	0.8	530	29	16	115	105	110	0	147	8	64.4	4.3	C3-S1
Sec. 14	"	"	"	5/59	---	---	1	I	73235	0.7	514	25	13	117	83	120	0	147	9	69.0	4.8	C2-S1
Sec. 23	"	"	"	5/59	---	---	7	I	73240	0.7	521	24	12	121	73	135	0	149	7	70.5	5.1	C2-S1
Sec. 23	"	"	"	5/59	---	---	8	I	73241	0.7	515	25	15	116	95	115	0	142	7	67.0	4.5	C2-S1
Sec. 26	"	"	H. T. Grummel	6/53	---	---	---	I-D	C4232	1.1	734	8	4	225	132	130	10	210	15	94.0	17.8	C3-S4
T.3N., R.1W.																						
Sec. 16	Waddell	"	B & M Farms	3/51	450	---	2	I	C2509	0.6	438	38	19	58	38	45	0	232	8	42.4	2.0	C2-S1
Sec. 17	"	"	"	3/51	---	---	1	I	C2508	0.5	352	15	8	81	44	50	5	146	3	71.9	3.8	C2-S1
Sec. 29	"	"	E. R. Veit	5/58	900	---	---	I	70824	0.5	347	30	13	51	35	45	0	173	--	46.3	2.7	C2-S1
Sec. 30	"	"	W. Thornburg	4/50	---	---	---	I	C1789	0.5	312	23	8	60	38	30	0	161	--	59.0	2.8	C2-S1
Sec. 30	"	"	"	5/50	399	---	---	I-D	C1840	0.4	298	15	8	60	28	20	0	163	4	65.0	3.5	C2-S1
Sec. 30	"	"	"	5/58	---	---	---	I	70788	0.3	209	14	1	44	26	0	T	124	--	70.8	2.9	C2-S1
T.3N., R.2W.																						
NW¼ Sec. 10	Peoria	"	Maricopa County Municipal Water Conservation District #1	6/63	1000	422	5-10	I	82638	0.3	252	16	8	44	16	32	0	132	4	57.2	1.5	C2-S1
Sec. 12	"	"	"	6/63	1000	418	5-12-E	I	82644	0.5	347	23	10	65	41	50	0	146	12	59.1	2.8	C2-S1
Sec. 18	Waddell	"	J. T. Sharrit	7/59	1500	---	---	I	73617	0.5	311	16	4	71	34	50	0	117	19	73.4	4.3	C2-S1
Sec. 22	Peoria	"	M.C.M.W.C.D.#1	6/63	1000	430	7-22	I	82637	0.3	256	16	7	48	20	28	1	132	4	61.0	2.5	C2-S1
Sec. 23	"	"	"	6/63	1000	420	7-23-E	I	82635	0.4	293	14	7	62	33	40	0	127	10	68.0	3.4	C2-S1
Sec. 25	Waddell	"	W. Thornburg	8/50	---	---	---	I	C2158	0.4	286	15	8	57	34	10	0	151	11	64.4	3.3	C2-S1
Sec. 36	Peoria	"	M.C.M.W.C.D.#1	6/63	1000	397	9-36	I	82634	0.4	279	10	3	70	33	51	0	108	4	80.4	5.0	C2-S1
T.4N., R.1W.																						
Sec. 15	Beardsley	"	J. E. Dalglish	12/51	---	---	---	I	C3067	0.6	423	45	23	40	38	50	0	227	--	29.5	1.3	C2-S1
Sec. 19	"	"	Beardsley Project	7/59	---	---	---	I	73610	0.5	340	26	12	57	34	50	4	154	--	51.9	2.5	C2-S1
Sec. 21	"	"	M.C.M.W.C.D.#1	6/63	1000	328	A-21-E	I	82640	0.5	429	34	9	80	41	67	2	190	6	59.3	3.0	C2-S1
Sec. 21	"	"	Beardsley Project	7/59	---	---	---	I	73611	0.6	395	30	9	73	40	60	1	180	--	58.5	3.1	C2-S1
Sec. 23	"	"	H. C. Schwalen	7/59	938	394	---	I	73912	0.6	430	43	21	46	36	50	0	234	--	33.6	1.5	C2-S1
Sec. 27	"	"	Gilbert Pump and Equipment Co.	5/57	1700	---	---	I	68649	0.6	440	11	3	127	84	110	7	98	--	87.3	8.7	C2-S2
Sec. 29	"	"	M.C.M.W.C.D.#1	4/61	1000	368	---	I-D	77946	0.6	397	23	11	78	41	60	0	181	3	62.3	3.3	C2-S1
Sec. 29	"	"	"	6/63	1000	394	1-29	I	82636	0.6	429	26	8	90	49	70	0	180	6	66.7	4.0	C2-S1
T.4N., R.2W.																						
Sec. 26	Peoria	"	M.C.M.W.C.D.#1	6/63	1000	382	3-26	I	82639	0.5	320	28	12	45	33	39	0	141	22	44.7	1.8	C2-S1
T.4N., R.5W.																						
Sec. 5	Blaine Corners	"	C. R. Palmateer	11/54	388	---	1	I	C5236	0.6	426	38	15	71	76	70	0	156	--	49.5	2.6	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.4N., 22W.																						
NW¼,NE¼ Sec. 36	Quartzite	Yuma	U. S. Geological Survey	11/61	471	365	Test	Test	(B-4-22)* 36 bab	5.6	3620	405	66	764	1330	940	0	144	5	56.4	9.3	:::
T.5N., R.13W.																						
Sec. 10	Salome	"	G. R. Dunlevy	1/58	508	150	---	I	69749	0.6	397	16	11	60	57	60	0	193	--	60.5	2.9	C2-S1
T.5N., R.14W.																						
Sec. 30	Vicksburg	"	J. T. Keller	9/56	450	---	---	IDS	67270	0.9	596	43	25	99	70	115	0	244	--	50.5	3.1	C3-S1
T.5N., R.20W.																						
Sec. 29	Bowyer	"	J. C. Lynch	5/50	---	---	---	IDS	58983	1.2	817	68	11	152	58	136	0	390	--	66.6	4.5	C3-S1
T.6N., R.12W.																						
Sec. 21	Wenden	"	H. L. Beck	9/60	900	150	1	I	77059	1.8	1238	73	14	321	272	450	0	93	14	74.4	9.0	C3-S2
Sec. 31	"	"	D. Anderson	12/57	915	134	---	I	69650	0.4	276	6	2	78	38	74	0	78	13	87.8	7.3	C2-S1
T.6N., R.16W.																						
Sec. 17	Bouse	"	W. W. Grace	2/51	---	---	---	I	C2482	1.5	1066	68	8	278	236	360	0	105	11	74.8	8.8	C3-S2
T.6N., R.21W.																						
SE¼,SE¼ Sec. 20	Bowyer	"	U. S. Geological Survey	9/63	584	14	4	Test	(B-6-21)* 20ddd	7.9	5300	575	186	1000	1950	1430	0	216	6	49.6	:::	:::
T.7N., R.14W.																						
Sec. 26	Bouse	"	V. Longton	1/57	80	---	---	I	67948	0.6	393	4	2	110	34	60	0	183	--	92.8	10.5	C2-S2
T.7N., R.17W.																						
Sec. 22	"	"	D. H. Robinson	7/57	80	---	---	I	432-W	1.0	1123	45	38	265	210	360	10	195	--	68.0	7.0	C3-S2
Sec. 23	"	"	C. Martin	12/49	136	36	---	I-D	56189	1.6	1131	90	8	260	188	322	0	259	--	68.6	7.0	C3-S2
Sec. 23	"	"	C. Boyd	12/49	50	35	---	I-D	56190	1.1	773	83	8	157	170	244	0	107	--	58.6	4.4	C3-S1
Sec. 26	"	"	J. B. Simpson	12/61	57	---	A	I-D	79539	2.4	2082	48	15	622	388	725	0	278	6	88.0	20.0	C4-S4
Sec. 26	"	"	"	12/61	100	45	B	I-D	79540	5.0	4055	18	11	1354	1050	1010	0	610	2	97.0	:::	:::
Sec. 26	"	"	"	1/62	57	---	A2	I-D	79806	2.6	1856	44	15	555	400	540	0	293	6	87.1	18.0	C4-S4
Sec. 26	"	"	"	1/62	---	---	B2	I-D	79807	5.9	4514	17	11	1368	1029	1480	0	605	2	97.0	:::	:::
T.8N., R.1W.																						
Sec. 33	Champie	Yavapai	Castle Hot Springs Hotel	4/61	Artesian		1	I	77826	1.2	702	30	5	194	143	205	0	124	1	81.4	8.6	C3-S2
T.8N., R.9W.																						
Sec. 33	Aguila	Maricopa	Arizona Development Co.	1/55	---	---	---	I	112-W	0.6	385	23	0	97	110	50	0	105	--	78.0	5.8	C2-S1
T.9N., R.20W.																						
Sec. 1	Parker	Yuma	H. Parris	6/58	26	10	---	I-D	71803	1.0	713	86	23	94	74	250	0	185	--	39.7	2.3	C3-S1
T.10N., R.14W.																						
Sec. 14	"	"	C. S. Barns	1/52	---	---	---	I	C3172	1.0	726	45	19	148	114	100	0	300	2	62.7	4.8	C3-S1
T.13N., R.4W.																						
Sec. 4	Skull Valley	Yavapai	R. H. Lund	1/50	85	Artesian		I	C1589	0.7	471	60	15	46	32	20	0	288	10	32.1	1.4	C2-S1
T.13N., R.5W.																						
Sec. 21	Kirkland	"	N. Hampton	1/63	---	---	Pond	I	81730	0.8	611	68	15	79	44	47	0	354	4	42.7	2.3	C3-S1
T.13N., R.6W.																						
SW¼,SE¼ Sec. 9	Yava	"	T. B. Satathite	6/51	56	40	---	I-D	60902	0.9	615	98	8	67	32	55	0	354	--	34.3	4.5	C3-S1
Sec. 9	"	"	"	7/51	20	14	---	I-S	60980	1.0	693	120	11	56	58	82	0	366	--	26.0	1.4	C3-S1
T.14N., R.2W.																						
Sec. 29	Prescott	"	W. A. Reid	8/55	160	110	---	---	66135	0.6	393	48	11	46	44	T	0	244	--	37.7	1.7	C2-S1

*Furnished by the U. S. Geological Survey

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.16N., R.1W.																						
SW¼,SW¼ Sec. 14	Chino Valley	Yavapai	M. Perkins	6/62	270	263	---	I-D	80681	0.5	321	33	28	9	18	8	0	220	5	8.9	0.5	C2-S1
NE¼,NE¼ Sec. 24	"	"	B. Wells	6/62	407	56	---	I-D	80683	0.5	314	36	23	13	22	8	0	207	5	13.4	0.4	C2-S1
T.16N., R.2W.																						
SE¼,SW¼ Sec. 3	"	"	Brown	9/50	---	---	1	I-D	59226	0.3	187	30	4	14	10	T	0	129	--	25.0	0.5	C2-S1
SW¼,NW¼ Sec. 4	"	"	Johnson - Sanders	9/50	---	---	---	I-D	59224	0.3	217	30	8	16	12	0	0	151	--	24.4	0.6	C2-S1
NW¼,NW¼ Sec. 15	"	"	Gil Bisjak	9/50	---	---	---	I-D	59223	0.3	183	23	11	7	8	0	0	134	--	12.7	0.4	C2-S1
Sec. 15	"	"	L. F. Hoskins	7/54	142	80	---	I	64627	0.3	204	30	8	14	18	T	T	134	--	22.0	0.4	C2-S1
Sec. 22	"	"	Prescott City	9/50	---	---	2	I-D	59227	0.3	211	30	8	14	10	T	0	149	--	22.0	0.6	C2-S1
SW¼,SE¼ Sec. 34	"	"	J. Taibadeau	11/58	---	---	---	I	72174	0.4	307	28	14	36	18	30	0	181	0	38.0	1.5	C2-S1
Sec. 34	"	"	Powell	5/56	600	14	---	I-S	304-W	0.2	262	29	10	28	24	10	0	161	--	34.9	1.3	C1-S1
Sec. 34	"	"	Yarbro	10/62	Artesian		4	I-D	81127	0.3	219	28	11	15	18	5	0	139	3	26.1	0.8	C2-S1
Sec. 35	"	"	H. James	4/63	300	279	---	I	82014	0.3	220	30	12	11	16	T	0	151	--	16.7	0.4	C2-S1
T.16N., R.13W.																						
Sec. 10	Wickieup	Mohave	F. O. Tennille	5/50	661	---	---	I	C1844	2.9	1999	15	4	699	726	360	7	188	--	96.6	42.0	:::
T.16½N., R.13W.																						
Sec. 21	"	"	Mrs. Ed Stephens	9/59	106	25	---	IDS	74273	0.9	660	66	23	89	60	100	0	322	--	42.7	2.3	C3-S1
T.17N., R.2W.																						
Sec. 4	Chino Valley	Yavapai	S. Reichert	3/52	100	11	---	I-D	61849	1.2	827	203	11	42	256	91	0	224	--	14.2	0.8	C3-S1
Sec. 9	Paulden	"	Marion Bigelow	8/59	460	160	1	I	74099	0.4	296	37	13	21	12	15	0	195	3	24.4	0.5	C2-S1
Sec. 13	"	"	L. C. Halpenny	1/63	Spring	---	---	---	81860	0.5	339	43	21	15	20	15	0	224	1	14.7	0.3	C2-S1
Sec. 13	"	"	"	1/63	Windmill		---	---	81861	0.4	269	35	15	13	12	5	0	186	3	16.1	0.3	C2-S1
Sec. 26	Chino Valley	"	Santa Fe Railroad	5/61	---	---	1	---	-----	0.3	218	21	14	16	10	8	0	149	--	24.8	0.5	C2-S1
Sec. 33	"	"	Yarbrough	3/62	Artesian		2	I	80331	0.3	223	28	12	14	16	11	0	142	--	20.3	0.5	C2-S1
Sec. 34	Paulden	"	L. Aiken	6/51	Spring	---	---	I	60816	0.9	637	68	0	115	104	0	0	340	--	59.5	3.9	C3-S1
Sec. 34	"	"	Santa Fe Railroad	11/61	Artesian		2	I-D	79195	0.3	231	32	10	22	16	6	0	142	3	28.4	0.7	C2-S1
Sec. 34	"	"	Santa Fe Yarbrough	6/62	---	---	3	IDS	80684	0.5	278	40	18	11	36	25	0	144	4	11.9	0.4	C2-S1
Sec. 35	"	"	L. Aiken	8/50	---	---	2A	I-D	59225	0.3	201	30	8	12	12	T	0	139	--	19.4	0.5	C2-S1
SW¼,SE¼ Sec. 35	"	"	Unknown	10/62	Spring	Flowing		I-D	81126	1.5	1188	88	73	152	127	213	12	522	1	38.8	3.9	C3-S1
T.17N., R.5W.																						
Sec. 35	Camp Wood	"	Lakin Cattle Co.	5/56	Spring	---	---	I-S	303-W	0.3	288	29	19	30	24	T	0	215	--	30.9	1.1	C2-S1
T.17N., R.22W.																						
Sec. 15	Mohave City	Mohave	R. Chesney	9/52	---	---	---	I	62295	2.2	1528	248	4	233	430	271	0	342	--	44.3	4.0	C3-S1
T.19N., R.21W.																						
Sec. 32	"	"	Sam Joy	5/60	170	65	1	I-D	76318	2.5	1693	78	25	473	590	283	0	244	--	77.6	11.6	C4-S3
T.19N., R.22W.																						
Sec. 24	"	"	"	4/59	---	---	---	I	73047	2.7	1483	70	23	410	523	230	0	227	--	76.8	10.8	C4-S3
Sec. 36	"	"	"	8/58	230	143	---	I	71506	2.1	1441	65	25	398	508	230	4	215	--	76.4	10.0	C3-S3
T.24N., R.12W.																						
Sec. 17	Crozier	"	Ranch Valentine	9/51	---	---	---	I	C2933	0.5	368	30	26	34	40	20	0	207	11	28.7	1.2	C2-S1
T.26N., R.17W.																						
SW¼ Sec. 23	Red Lake	"	Lawrence, Stegall & Cooke Ranches	3/58	750	250	---	I	70382	0.4	262	6	1	92	35	0	1	127	--	91.3	8.9	C2-S2
T.40N., R.6W.																						
Sec. 3	Short Creek	"	Fred Jessup	6/61	50	20	---	I-D	78361	0.4	271	34	18	9	8	13	0	188	1	11.4	0.5	C2-S1

Table 5 Continued
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T.41N., R.2W.																						
Sec. 16	Fredonia	Coconino	K. H. Bryner	11/62	16	---	---	I	81281	0.4	292	26	6	50	10	90	0	110	--	54.7	2.0	C2-S1
Sec. 17	"	"	M. Button	12/62	---	---	---	I	81388	1.7	1519	97	136	132	51	520	0	579	4	26.3	1.9	C3-S1
Sec. 17	"	"	D. Wagner	8/51	18	9	---	I	61063	9.6	6729	1125	244	555	364	3880	0	561	--	24.0	:::	:::
Sec. 18	"	"	L. A. Wagner	3/61	18	9	1	I	77598	3.5	3540	570	190	193	77	2100	0	410	--	16.0	:::	:::
T.41N., R.15W.																						
Sec. 33	Littlefield	Mohave	W. Walters, Jr.	6/61	101	50	1	I	78362	0.6	600	63	22	170	24	91	0	226	4	60.0	4.6	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1S., R.1W.																						
Sec. 1	Avondale	Maricopa	Fridenmaker Farms	4/58	150	60	---	I	70746	4.9	3440	394	113	665	1588	414	0	266	--	49.9	7.6	C4-S3
Sec. 2	"	"	D. E. Accomazzo	4/51	172	---	---	I	C2582	4.3	2983	225	83	729	1388	260	0	298	--	63.7	10.5	C4-S3
Sec. 2	"	"	"	4/51	---	---	---	I	C2588	4.2	2908	233	79	699	1360	240	0	293	4	62.7	10.1	C4-S3
T.1S., R.2W.																						
Sec. 4	Rainbow Valley	"	MBM Farms	6/60	1100	275	---	I	76569	2.0	1184	35	3	388	472	200	0	71	15	89.4	17.0	C3-S4
Sec. 6	Buckeye	"	Buckeye Irrigation Co.	7/55	---	---	4S	I	C5729	6.9	4834	375	161	1085	1880	880	0	439	14	59.9	:::	:::
Sec. 6	"	"	"	8/60	---	---	4S	I	76891	4.9	2900	188	89	707	1192	450	0	259	15	65.0	10.5	C4-S3
Sec. 6	"	"	"	9/63	---	---	4S	I	83698	5.0	3171	258	94	718	1275	520	4	283	19	60.2	9.7	C4-S3
Sec. 7	Rainbow Valley	"	MBM Farms	6/60	1100	275	---	I	76568	1.8	1216	82	7	325	374	282	0	93	53	75.2	9.4	C3-S2
Sec. 7	"	"	D. Hefley	3/60	300	36	1	I-D	75479	1.6	1004	57	12	273	352	100	0	207	1	75.5	8.6	C3-S2
Sec. 8	Buckeye	"	R. L. Freeman	9/50	---	---	---	I	C2236	4.7	3286	315	83	722	1346	500	0	317	3	58.2	9.3	C4-S3
Sec. 8	"	"	"	5/51	---	---	1	I	C2663	4.6	3190	143	45	935	1290	480	0	295	2	78.9	:::	:::
Sec. 8	"	"	"	5/51	137	---	2	I	C2670	4.7	3274	240	41	884	1454	400	0	254	1	71.4	:::	:::
Sec. 29	Rainbow Valley	"	Travis Jones	5/58	---	---	1	I	70886	6.9	4815	428	47	1214	1897	1000	0	229	--	67.6	:::	:::
Sec. 29	"	"	"	5/58	---	---	2	I	70887	4.4	3099	237	35	810	1205	592	0	220	--	70.4	13.0	C4-S4
T.1S., R.3W.																						
Sec. 2	Buckeye	"	Buckeye Irrigation Co.	7/55	---	---	6S	I	C5731	7.5	5301	330	165	1318	2190	880	0	403	15	67.8	:::	:::
Sec. 2	"	"	"	7/58	---	---	6S	I	71323	7.1	5001	324	140	1269	2170	820	0	278	--	28.9	:::	:::
Sec. 2	"	"	"	8/60	---	---	6S	I	76892	7.9	4713	305	146	1160	1980	775	0	332	15	64.8	:::	:::
Sec. 2	"	"	"	9/63	---	---	6S	I	83700	7.2	4824	308	126	1215	1917	900	2	332	24	67.2	:::	:::
Sec. 2	"	"	W. A. Heiden	5/51	---	---	---	I	C2674	6.5	4577	360	150	1049	1930	700	10	373	5	60.1	:::	:::
Sec. 2	"	"	"	5/51	---	---	---	I	C2675	5.0	3472	270	128	775	1416	660	2	215	6	58.5	9.8	C4-S3
Sec. 3	"	"	W. C. Lyon	9/50	37	---	---	I	C2250	2.1	1486	120	38	342	568	150	0	259	9	61.9	6.9	C3-S2
Sec. 5	"	"	Buckeye Irrigation Co.	9/63	---	---	18	I	83722	6.3	4907	364	168	1077	1550	1450	0	220	78	59.5	:::	:::
Sec. 6	"	"	Long's Dairy	2/59	205	---	---	I	551-W	6.6	4244	315	276	719	1333	1320	0	281	--	45.0	6.8	:::
Sec. 9	"	"	C. W. DeMund	11/54	173	---	---	I	C5242	6.7	4678	525	131	920	1840	920	0	342	--	51.9	:::	:::
Sec. 9	"	"	E. Terkelsen	3/59	---	---	---	I	72780	8.9	6204	424	176	1498	2343	1300	0	427	36	64.6	:::	:::
Sec. 9	"	"	"	5/61	180	35	1	I	78197	8.5	6560	373	194	1668	2575	1350	0	390	8	67.6	:::	:::
Sec. 10	"	"	V. Beloat	7/51	---	---	---	I	C2848	8.6	5347	345	150	1340	2216	820	0	461	15	66.3	:::	:::
Sec. 11	"	"	E. Rivers	8/60	---	---	---	I	670-W	9.3	6415	352	195	1658	2690	1100	0	420	--	68.2	:::	:::
Sec. 11	"	"	"	10/60	50	20	1	I-D	77113	8.5	4782	321	190	1167	2660	16	0	427	1	61.5	:::	:::
Sec. 11	"	"	P. L. Mehan	10/61	50	30	1	I	79110	8.5	6163	312	216	1555	2406	1263	0	381	30	67.5	:::	:::
Sec. 11	"	"	W. S. Hull	4/63	90	20	1	IDS	82211	6.8	4451	216	104	1060	1595	950	0	487	38	70.4	:::	:::
Sec. 11	"	"	"	4/63	90	20	2	IDS	82212	7.0	4554	285	130	1057	1820	900	0	342	20	64.7	:::	:::
Sec. 11	"	"	"	4/63	90	20	3	IDS	82213	3.0	1767	71	32	514	710	305	0	127	8	78.2	12.0	C4-S3
Sec. 14	"	"	R. V. Parks	5/58	100	25	1	I	70827	5.1	3532	235	76	920	1525	500	T	276	--	68.9	:::	:::
Sec. 14	"	"	"	5/58	---	---	2	I	70828	5.0	3516	255	100	846	1479	560	0	276	--	63.6	:::	:::
Sec. 17	"	"	G. Dykes	10/58	1200	---	---	I-D	72104	0.5	325	11	4	83	51	39	0	137	4	80.4	5.8	C2-S1
Sec. 21	"	"	C. O. Vosburgh	7/59	---	---	---	I	73741	8.8	6073	571	224	1278	2740	1000	0	232	28	54.2	:::	:::
Sec. 24	"	"	L. P. Way	7/59	---	---	1	I	73740	6.9	5442	222	211	1339	1570	1800	0	256	44	67.2	:::	:::
T.1S., R.4W.																						
Sec. 1	"	"	Buckeye Irrigation Co.	7/55	---	---	21	I	C5752	6.5	4543	300	135	1032	1220	1500	0	244	112	62.6	:::	:::
Sec. 1	"	"	"	7/58	---	---	21	I	71313	6.1	4302	259	133	1033	1286	1420	0	171	--	65.3	:::	:::
Sec. 1	"	"	"	8/60	---	---	21	I	76919	6.4	4148	272	145	937	1272	1225	0	215	82	61.6	:::	:::
Sec. 1	"	"	"	9/63	---	---	21	I	83723	6.1	4778	294	145	1122	1337	1563	2	220	95	64.7	:::	:::
Sec. 2	"	"	"	9/63	---	---	23	I	83725	6.4	5000	368	141	1124	1367	1713	0	195	92	62.1	:::	:::
Sec. 3	Palo Verde	"	R. W. Thayer	12/57	---	40	---	I	69615	5.7	3994	338	46	948	1070	1300	0	142	150	66.6	:::	:::
Sec. 3	"	"	"	7/58	---	---	1	I	71344	5.8	4038	322	56	972	1054	1480	T	154	--	67.1	:::	:::
Sec. 3	"	"	Buckeye Irrigation Co.	9/63	---	---	24	I	83726	6.4	4989	414	86	1153	1326	1725	0	207	78	64.3	:::	:::
Sec. 4	"	"	D & R Farms	2/59	500	---	South	I	72544	6.3	4380	332	61	1104	1070	1560	0	159	94	69.0	:::	:::
Sec. 4	"	"	"	2/59	---	---	B.I.D.	I	72545	6.2	4348	293	58	1098	1100	1500	1	214	84	71.1	:::	:::

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1S., R.4W.																						
Sec. 6	Palo Verde	Maricopa	Roosevelt Irrigation District	9/63	---	---	231/2W, 5/8S	I	83574	3.9	3474	342	66	734	917	1210	5	122	78	58.6	9.5	C4-S3
Sec. 7	"	"	E. H. Johnson	1/53	---	---	---	I	C3952	3.9	2732	240	56	610	808	800	0	137	81	61.5	9.4	C4-S3
Sec. 8	"	"	Buckeye Irrigation Co.	5/50	---	---	26	I	C1879	7.7	5370	300	150	1320	1420	1960	0	220	--	67.8	:::	:::
Sec. 8	"	"	"	7/55	---	---	26	I	C5757	4.4	3061	285	83	634	920	860	0	195	84	56.7	8.5	C4-S3
Sec. 8	"	"	"	7/58	---	---	26	I	71318	3.5	2484	202	68	556	835	640	0	183	--	60.7	8.7	C4-S3
Sec. 8	"	"	"	8/60	---	---	26	I	76924	3.3	2373	188	72	525	808	575	0	146	--	59.8	7.8	C4-S3
Sec. 8	"	"	"	9/63	---	---	26	I	83727	4.0	3045	228	63	722	940	813	0	195	84	32.7	10.8	C4-S3
Sec. 14	"	"	Unknown	2/59	Drain ditch leading into Arlington Canal			I	553-W	9.0	5476	326	195	1281	1788	1520	0	366	--	63.0	:::	:::
Sec. 18	"	"	Buckeye Irrigation Co.	7/62	---	---	5L	I	80869	6.5	4263	294	108	1020	1400	1090	0	288	63	65.3	:::	:::
Sec. 24	Buckeye	"	M. J. Valentine	2/59	250	35	---	I	72548	6.3	4378	434	169	627	1980	850	0	318	--	43.4	9.5	:::
Sec. 24	"	"	Black Butte Farms	6/62	530	30	1	I-S	80594	4.5	2736	302	103	510	1216	335	0	268	2	48.4	6.4	C4-S2
Sec. 26	Palo Verde	"	Drew Ranch	8/50	---	---	---	I	C2122	4.1	2868	233	83	660	1200	370	0	322	--	60.9	9.5	C4-S3
Sec. 26	"	"	Black Butte Farms	9/60	530	30	1	I-S	77091	3.1	1975	180	78	395	834	240	0	246	2	52.7	6.3	C4-S2
Sec. 29	"	"	E. C. Andrews	5/60	22	16	---	I	639-W	2.7	1877	113	39	485	748	175	0	317	--	70.4	10.0	C4-S3
Sec. 29	"	"	"	4/61	---	---	---	I	738-W	3.0	1914	131	40	481	795	155	0	312	--	68.0	9.5	C4-S3
T.1S., R.5W.																						
Sec. 1	Hassayampa	"	Buckeye Irrigation Co.	9/63	---	---	28	I	83729	4.5	3333	506	118	449	1153	875	0	134	98	35.7	:::	:::
SW¼,SE¼ Sec. 6	"	"	J. S. Stephons	9/63	800	246	---	I	83988	1.2	772	14	7	223	143	155	0	220	10	87.8	11.5	C3-S3
Sec. 26	Arlington	"	C. C. Cooper	9/50	Arlington Canal			I	C2247	6.1	4233	240	105	1093	1510	950	0	303	32	69.7	:::	:::
Sec. 27	"	"	"	9/50	Arlington Well			I	C2248	2.0	1386	150	38	267	512	180	0	207	32	52.3	5.1	C3-S2
Sec. 27	"	"	P. Northrup	6/61	508	58	2	I	78426	3.3	2003	181	15	517	852	350	0	83	5	68.6	9.7	C4-S3
Sec. 34	"	"	"	6/61	446	60	3	I	78427	5.0	3136	239	56	797	1262	630	0	137	15	67.8	12.0	C4-S4
Sec. 34	"	"	"	6/61	500	60	4	I	78428	7.5	4901	404	150	1109	1988	980	0	254	16	59.6	:::	:::
T.1S., R.6W.																						
NE¼,SW¼ Sec. 13	"	"	J. C. Bradley	9/63	1121	278	---	I	83989	2.1	1291	14	4	420	334	305	1	195	18	94.8	25.5	C3-S4
SW¼ Sec. 14	"	"	C. Younger	4/58	---	---	A8	I	70639	2.5	1751	12	7	400	320	248	T	264	--	94.0	24.0	C4-S4
NW¼,NW¼ Sec. 18	"	"	Bill Hardison	9/63	1400	254	---	I	83990	1.8	1382	14	7	437	335	268	2	307	12	93.6	23.5	C3-S4
Sec. 18	"	"	L. Wingfield	5/51	1120	---	1	I-D	C2687	3.5	2475	255	68	510	1000	330	0	304	8	54.8	7.4	C4-S2
Sec. 18	"	"	"	5/51	---	---	2	I-D	C2688	1.8	1237	8	4	415	362	250	0	181	17	96.2	31.0	C3-S4
NW¼ Sec. 19	"	"	E. Edwards	4-5/57	---	---	---	---	68446	2.7	1917	19	14	610	370	600	36	268	--	92.7	25.0	C4-S4
Sec. 21	"	"	R. L. Ward	1/50	400	---	---	I-D	C1596	2.4	1683	23	11	526	396	400	0	320	7	91.8	22.5	C4-S4
Sec. 23	"	"	B. F. Youngker	3/50	---	---	16	I	C1679	1.2	838	8	0	275	214	120	7	204	10	96.9	28.0	C3-S4
NW¼ Sec. 23	"	"	C. Younger	4/58	---	---	A9	I	70640	1.4	946	21	6	283	216	200	T	220	--	88.8	14.1	C3-S3
NE¼ Sec. 23	"	"	"	4/58	---	---	A10	I	70641	1.1	797	10	5	242	171	142	T	227	--	92.1	15.9	C3-S3
NE¼ Sec. 26	"	"	"	4/58	---	---	A11	I	70642	1.6	1113	43	20	311	324	298	0	117	--	78.4	10.0	C3-S2
Sec. 27	"	"	S. Wilson	8/57	---	---	---	---	69062	4.9	3411	139	49	1025	1378	560	0	268	--	80.2	:::	:::
SW¼,NW¼ Sec. 27	"	"	Wilson & Wilson	9/63	1080	197	---	I	83985	2.6	1663	42	18	502	480	410	2	195	14	86.0	16.5	C4-S4
T.1S., R.7W.																						
Sec. 19	Centennial Wash	"	R. L. Ward	12/59	1048	164	1	I	74674	2.8	1816	21	28	538	384	465	0	371	9	87.4	18.0	C4-S4
T.1S., R.8W.																						
Sec. 6	Wintersburg	"	W. J. Morris	1/57	160	---	1	I	C7331	1.1	765	26	10	208	156	180	0	185	--	80.7	9.0	C3-S2
Sec. 6	"	"	"	1/57	---	---	2	I	C7342	1.0	718	21	8	207	160	190	5	127	--	76.8	7.8	C3-S2
Sec. 10	Harquahala	"	Melton	3/61	---	---	2	I	724-W	1.2	747	16	7	224	181	168	0	151	--	87.7	13.0	C3-S3
Sec. 11	"	"	"	3/61	---	---	1	I	723-W	1.2	736	28	12	199	178	173	0	146	--	78.5	8.3	C3-S2
Sec. 13	Hassayampa	"	R. L. Ward, M.D.	6/50	---	---	---	I	C1936	1.2	810	23	15	195	100	80	0	386	11	78.3	8.3	C3-S2
Sec. 14	"	"	"	5/60	550	31	1	I	76306	1.2	764	13	3	236	152	162	4	183	11	92.0	15.5	C3-S3
SE¼,NE¼ Sec. 14	"	"	"	9/63	1050	180	---	I	83983	1.1	677	18	4	193	114	137	5	193	13	87.5	10.8	C3-S2
Sec. 15	"	"	F. M. Wilson	11/61	550	110	1	I	79187	1.0	587	8	1	195	147	165	12	51	8	94.6	17.0	C3-S3

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1S., R.8W.																						
Sec. 16	Harquahala	Maricopa	G. Lamb	8/60	550	70	---	I	76876	1.1	672	6	1	217	142	183	0	112	11	96.0	20.0	C3-S4
Sec. 18	"	"	R. Benson	5/54	---	---	---	I-D	C4895	1.8	1269	113	53	209	252	300	0	332	10	47.7	4.1	C3-S1
Sec. 19	"	"	G. Lamb	8/60	480	90	---	I	76875	1.3	799	15	5	246	180	225	0	110	18	90.1	14.0	C3-S3
T.1S., R.9W.																						
Sec. 1	"	"	Shawver Bros.	5/57	1006	174	---	I	424-W	0.9	733	4	6	207	156	140	0	220	--	91.0	14.0	C3-S3
Sec. 2	"	"	"	5/57	1039	258	---	I-S	423-W	0.9	782	6	12	232	160	150	0	232	--	90.0	14.0	C3-S3
Sec. 2	"	"	Jack Shawver	8/56	1000	---	---	I	C6720	1.2	848	14	9	245	154	160	2	264	14	88.0	13.0	C3-S3
Sec. 6	"	"	W. F. Wilson	4/61	---	---	South	I	77974	1.1	645	23	5	181	143	136	0	147	10	83.5	8.7	C3-S2
Sec. 7	"	"	"	4/61	490	320	North	I	77973	0.9	540	23	7	142	118	113	0	127	10	78.2	6.6	C3-S2
Sec. 10	"	"	Unknown	9/61	900	220	---	I	606-W	1.1	720	28	13	191	157	180	1	156	--	77.0	7.5	C3-S2
SW¼,SE¼ Sec. 10	"	"	T. B. Melton	9/63	775	387	---	I	83981	1.2	721	34	12	181	143	179	0	161	11	74.5	6.6	C3-S2
Sec. 12	"	"	R. Benson	1/58	1500	265	---	I-D	69751	0.9	621	25	7	163	110	182	0	134	--	79.4	7.5	C3-S2
Sec. 22	"	"	Unknown	3/60	480	---	---	I-S	615-W	1.2	743	29	6	212	160	250	1	85	--	82.6	8.5	C3-S2
T.2S., R.1W.																						
Sec. 5	Rainbow Valley	"	Rainbow Valley Citrus	3/62	900	250	---	I	80125	2.6	1566	64	15	491	706	245	0	34	11	83.0	14.6	C4-S3
Sec. 19	"	"	P. Northrup	5/53	---	---	1	I	C4205	1.5	1062	23	4	359	452	140	5	59	10	91.6	18.5	C3-S4
SE¼ Sec. 20	"	"	C. Younger	4/58	---	---	6	I	70648	2.5	1742	92	8	545	848	200	0	49	--	82.1	14.9	C4-S4
NW¼ Sec. 29	"	"	"	4/58	---	---	3	I	70645	1.9	1309	31	4	439	539	164	0	132	--	91.3	20.8	C3-S4
SW¼ Sec. 29	"	"	"	4/58	---	---	4	I	70646	1.6	1145	30	2	380	461	194	0	78	--	90.6	18.0	C3-S4
Sec. 33	"	"	P. H. Seamon	12/50	1033	---	---	I	C2377	2.2	1513	60	8	488	688	200	0	61	8	85.4	16.0	C3-S4
SE¼ Sec. 36	"	"	C. Younger	4/58	---	---	11	I	70653	0.9	598	6	0	193	156	82	T	161	--	96.5	21.5	C3-S4
T.2S., R.2W.																						
Sec. 6	"	"	J. O. Warren	1/50	---	---	---	I	C1591	0.6	440	60	11	39	14	10	0	300	6	30.3	1.3	C2-S1
Sec. 9	"	"	Mitchel Farms	2/57	540	---	---	I-D	C7416	0.9	617	9	5	176	104	60	0	249	14	89.8	11.8	C2-S2
SE¼ Sec. 9	"	"	C. Younger	4/58	---	---	9	I	70651	0.5	368	4	1	99	30	T	0	234	--	93.4	10.5	C2-S2
Sec. 10	"	"	P. Ladra	10/58	250	---	---	I	521-W	1.2	708	25	2	209	203	79	T	190	--	87.0	11.5	C3-S3
NE¼ Sec. 12	"	"	C. Younger	4/58	---	---	7	I	70649	1.7	1180	31	1	405	530	159	0	54	--	91.9	20.0	C3-S4
NE¼ Sec. 12	"	"	"	4/58	---	---	8	I	70650	1.4	954	21	T	327	376	162	0	68	--	93.3	19.8	C3-S4
SW¼ Sec. 12	"	"	"	4/58	---	---	12	I	70654	2.0	1372	45	1	451	562	162	0	151	--	89.4	18.5	C3-S4
SE¼ Sec. 13	"	"	"	4/58	---	---	2	I	70644	2.1	1488	63	7	458	625	236	0	59	--	86.5	14.7	C3-S4
NE¼ Sec. 13	"	"	"	4/58	---	---	5	I	70647	1.6	1130	35	2	380	510	149	0	54	--	89.6	17.0	C3-S4
NE¼ Sec. 13	"	"	"	4/58	---	---	10	I	70652	1.9	1337	51	4	430	556	198	0	98	--	86.4	15.6	C3-S4
Sec. 23	"	"	I. A. Jennings, Jr.	4/50	1300	---	---	I	C1757	1.2	834	15	4	166	312	120	T	117	22	87.1	10.0	C3-S2
Sec. 24	"	"	P. Northrup	5/53	---	---	2	I	C4206	1.5	1037	15	4	359	428	140	7	73	11	93.6	22.0	C3-S4
SE¼ Sec. 35	"	"	C. Younger	4/58	---	---	1	I	70643	1.1	749	28	3	225	242	134	T	117	--	85.2	10.8	C3-S2
Sec. 36	"	"	J. O. Warren	1/50	236	---	1	I	C1590	3.5	2433	135	19	717	1060	260	0	242	--	79.0	15.3	C4-S4
T.2S., R.4W.																						
Sec. 16	Gillespie Dam	"	G. Slater	3/57	---	---	---	I	C7463	1.9	1310	112	37	286	508	140	0	224	3	58.9	6.0	C3-S2
SE¼,SE¼ Sec. 24	"	"	H. D. Pelham	4/60	500	260	1	I	75887	1.7	1051	47	3	319	377	147	1	139	17	84.2	12.0	C3-S3
Sec. 26	"	"	F. L. Wilson	2/56	535	---	---	I	C6149	2.3	1575	68	8	496	688	190	0	112	13	84.1	12.8	C4-S3
Sec. 31	"	"	A. W. Lantis LSC Ranch	4/57	---	---	6	I-S	418-W	1.7	1455	88	35	377	620	128	0	207	--	69.2	8.7	C3-S2
Sec. 32	"	"	"	4/57	458	---	4	I-S	416-W	1.9	1475	67	9	467	710	124	0	98	--	83.2	14.9	C3-S3
Sec. 32	"	"	"	4/57	450	---	5	I-S	417-W	1.7	1380	73	11	414	610	126	0	146	--	79.7	12.5	C3-S3
Sec. 32	"	"	T. W. Abell	5/51	---	---	---	I	C2696	2.1	1497	75	8	462	139	180	0	98	2	81.9	13.9	C3-S3
T.2S., R.5W.																						
Sec. 8	"	"	J. Jagow	5/50	150	---	2	I	C1837	11.6	8083	390	135	2283	3170	1360	0	725	20	76.0	:::	:::
Sec. 9	"	"	Arizona Fish & Game	6/61	---	---	---	I	78425	1.2	645	8	5	213	232	100	2	80	5	92.0	15.0	C3-S3
Sec. 15	"	"	P. Northrup	6/61	---	---	5	I	78429	10.0	6979	544	110	1759	2693	1340	0	525	10	67.0	:::	:::
Sec. 16	"	"	"	6/61	---	---	6	I	78430	10.0	6852	475	75	1851	2633	1425	0	378	15	73.0	:::	:::

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.2S., R.5W.																						
Sec. 27	Gillespie Dam	Maricopa	Mortori Bros. Farm	12/56	600	---	---	I	C7186	1.6	1151	81	26	278	424	140	0	202	4	66.1	6.9	C3-S2
Sec. 34	"	"	C. W. Davis	12/50	85	---	1	I	C2381	2.2	1532	180	23	318	604	190	0	217	--	56.0	6.0	C3-S2
Sec. 34	"	"	"	12/50	105	---	2	I	C2382	2.3	1624	150	49	349	668	230	0	178	--	56.9	6.4	C4-S2
Sec. 34	"	"	Northrup & Northrup Ranch	4/58	---	---	1	I	475-W	1.9	1683	136	10	448	655	336	T	98	--	72.0	9.9	C3-S3
Sec. 34	"	"	"	4/58	---	---	2	I	476-W	3.7	3461	186	115	879	1365	760	0	156	--	67.0	:::	:::
Sec. 34	"	"	"	4/58	---	---	3	I	477-W	4.6	4582	226	210	1090	1834	944	0	278	--	62.0	:::	:::
T.2S., R.16W.																						
Sec. 33	Kofa	Yuma	W. T. Wright	2/51	110	Artesian		I	60108	4.1	2899	323	98	504	860	736	0	378	--	47.5	6.3	C4-S2
T.2S., R.23W.																						
Sec. 36	Cibola	"	Arizona Fish & Game Dept.	3/54	---	---	---	I	C4764	2.0	1373	120	41	236	136	450	0	390	--	52.2	4.5	C3-S2
T.3S., R.1W.																						
Sec. 21	Rainbow Valley	Maricopa	W. Bales	9/58	1175	345	---	I	71724	0.8	535	10	1	162	118	70	0	132	42	92.3	11.8	C3-S2
Sec. 21	"	"	Bales & Beloat Ranch	4/61	350	285	---	I	751-W	0.9	449	8	3	138	118	65	2	115	--	90.4	11.0	C3-S2
T.3S., R.3W.																						
Sec. 33	"	"	S. Williams	8/53	---	---	---	I-D	C4291	3.1	2153	203	25	516	856	300	1	244	8	64.6	9.1	C4-S3
T.3S., R.4W.																						
Sec. 3	Gila Bend Canal	"	C. W. Davis	7/51	---	---	1	I	C2852	2.9	2006	165	49	459	746	310	0	271	6	61.9	8.3	C4-S2
Sec. 4	"	"	J. C. Patterson	4/57	350	217	---	I	411-W	1.8	1704	97	23	497	820	150	0	117	--	76.1	11.8	C3-S3
Sec. 9	"	"	Landis Ranch	4/57	465	205	2	I-S	407-W	1.4	1360	97	28	343	580	127	0	185	--	67.5	7.8	C3-S2
Sec. 14	"	"	D. Fuller	10/55	600	---	---	I	C5946	1.7	1203	60	8	363	510	135	0	117	10	81.3	11.9	C3-S3
Sec. 14	"	"	"	5/58	600	350	---	I	70889	1.7	1186	63	3	357	472	188	0	103	--	82.0	12.0	C3-S3
Sec. 16	"	"	Landis Ranch	4/57	475	203	3	I	406-W	1.4	1518	85	20	434	680	150	0	149	--	76.0	11.0	C3-S3
Sec. 18	"	"	Enterprise Ranch	5/59	---	---	---	I	588-W	6.1	4146	271	124	1004	1523	980	0	244	--	65.0	:::	:::
Sec. 19	Gillespie Dam	"	H. Stewart	5/51	---	---	---	I	C2669	2.9	2043	248	68	362	842	260	0	259	4	46.7	5.3	C4-S2
Sec. 19	Gila Bend Canal	"	C. W. Davis	7/51	---	---	2	I	C2853	3.2	2266	263	79	411	948	290	0	271	4	47.7	5.8	C4-S2
Sec. 19	"	"	Enterprise Ranch	5/59	800	150	---	I-S	589-W	2.2	1403	143	42	276	533	180	0	229	--	53.0	5.3	C3-S2
Sec. 20	Gillespie Dam	"	L. C. Layton	5/60	700	160	River Ranch	I	76319	1.4	927	55	13	233	280	90	0	256	0	72.7	7.4	C3-S2
Sec. 20	"	"	River Ranch	5/60	180	---	---	I	649-W	2.2	1403	123	33	311	524	188	0	224	--	60.4	6.4	C3-S2
Sec. 22	Gila Bend Canal	"	J. Turner	2/51	465	---	---	I	C2483	2.0	1384	53	8	436	574	170	0	132	11	85.4	15.0	C3-S4
Sec. 22	"	"	Sunset Ranch Trust	4/57	500	272	4	I	408-W	1.3	1348	72	10	398	580	122	0	166	--	80.0	12.0	C3-S3
Sec. 23	Cotton Center	"	S. W. Hansen	6/58	400	252	---	I	71076	2.8	1950	169	8	527	874	262	0	110	--	71.5	10.8	C4-S3
T.4S., R.4W.																						
Sec. 3	"	"	E. B. West	3/58	350	165	---	I-D	70384	3.5	2435	113	15	669	559	336	0	742	--	81.0	15.8	C4-S4
Sec. 15	"	"	F. C. Layton	5/60	680	160	---	I	76320	2.3	1428	129	28	327	560	195	0	183	6	62.0	6.8	C4-S2
Sec. 18	"	"	F. Pierpont	2/60	385	100	1	I	75480	2.2	1391	101	32	327	492	165	0	273	1	65.0	7.4	C3-S2
Sec. 19	"	"	"	4/58	385	56	---	I	70749	1.9	1333	73	29	334	437	170	0	290	--	70.6	8.3	C3-S2
Sec. 32	"	"	B. Harrelson	3/52	175	---	---	I	C3284	6.7	4666	525	180	910	2400	390	0	261	--	49.1	:::	:::
Sec. 32	"	"	"	4/58	250	51	---	I	70750	4.4	3068	318	115	605	1391	432	T	207	--	50.9	7.5	C4-S3
T.4S., R.6W.																						
Sec. 5	Dendora Valley	"	V. Merril	12/59	300	120	1	I	74672	2.0	1099	39	11	336	412	210	0	88	3	83.6	12.0	C3-S3
Sec. 5	"	"	"	12/59	300	120	2	I	74673	2.1	1366	35	17	390	308	300	0	302	14	84.4	13.2	C3-S3
Sec. 12	Citrus Valley	"	Unknown	2/60	150	40	1	I	75400	10.0	6776	634	255	1429	3080	1200	0	178	--	54.1	:::	:::
T.4S., R.7W.																						
Sec. 13	Dendora Valley	"	J. Wesson	10/51	260	---	Orr	I	C2977	4.1	2887	255	60	695	1308	320	0	242	7	63.1	10.3	C4-S3

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.4S., R.7W.																						
Sec. 36	Citrus Valley	Maricopa	J. Wesson	4/51	---	---	3	I	C2584	1.7	1177	38	8	380	516	120	0	115	9	86.9	15.0	C3-S3
T.4S., R.8W.																						
Sec. 16	Dendora Valley	"	W. E. Dunigan	10/60	1010	50	1	I	77269	1.4	815	40	22	207	276	135	0	127	8	70.2	6.5	C3-S2
Sec. 26	"	"	A. E. Pettit	5/58	---	---	4	I	71061	3.8	2638	206	47	685	1203	420	0	77	--	67.7	11.3	C4-S3
Sec. 26	"	"	"	5/58	---	---	4	I	71062	2.9	2027	165	17	453	887	336	0	79	--	67.1	9.0	C4-S3
Sec. 31	"	"	R. Sevey	9/54	---	---	2	I	C5180	10.3	7235	840	105	1572	2980	1320	0	256	162	57.5	:::	:::
Sec. 34	"	"	A. E. Pettit	5/58	---	---	8	I	71065	5.1	3562	177	30	1058	1350	816	0	131	--	80.3	:::	:::
Sec. 35	"	"	"	5/58	---	---	6	I	71063	1.7	1156	44	4	363	441	206	0	98	--	86.1	14.0	C3-S3
Sec. 35	"	"	"	5/58	---	---	7	I	71064	4.0	2801	173	9	807	986	680	0	146	--	78.8	16.0	C4-S4
Sec. 35	"	"	"	5/58	---	---	9	I	71066	5.0	3483	251	29	952	1365	744	0	142	--	73.4	:::	:::
Sec. 35	"	"	"	5/58	---	---	11	I	71068	1.6	1137	34	3	366	400	224	T	110	--	89.0	11.1	C3-S3
T.4S., R.10W.																						
Sec. 2	Agua Caliente	"	L. Delis	3/59	---	---	1	I	72793	0.9	613	10	1	210	188	120	0	93	--	93.7	17.0	C3-S3
Sec. 2	"	"	"	3/59	---	---	2	I	72794	0.9	618	11	1	201	188	120	0	97	--	93.2	15.0	C3-S3
Sec. 5	"	"	W. M. Hauser	6/53	460	---	---	I	C4259	0.8	543	15	4	159	130	100	0	122	13	86.7	9.5	C3-S2
Sec. 17	"	"	J. S. Francis Jr.	7/59	1350	134	1	I	73354	1.0	665	6	3	214	160	170	2	112	6	94.4	18.5	C3-S4
Sec. 33	Hyder	Yuma	State Lease Land	2/61	500	90	1	I	77432	3.5	3205	569	8	427	270	1900	0	29	3	38.9	4.6	C4-S2
T.4S., R.11W.																						
Sec. 5	"	"	P. J. Porter	8/53	---	---	---	I	C4302	0.8	548	15	8	158	146	100	0	107	14	82.9	8.5	C3-S2
Sec. 12	"	"	H. W. Vick	2/53	---	---	---	I	C4019	0.9	635	15	8	195	200	130	2	85	--	86.0	10.5	C3-S2
Sec. 12	"	"	B. Goldsten	4/53	415	---	---	I-D	C4084	1.0	668	8	4	216	194	120	0	117	9	92.7	16.5	C3-S3
Sec. 16	Agua Caliente	"	F. Marisch	3/58	900	---	---	I	70385	0.8	526	31	1	147	155	93	0	100	--	79.8	7.0	C2-S2
T.4S., R.21W.																						
Sec. 8	Dome	"	L. Jones	11/49	---	---	---	I	56088	4.3	2987	210	15	851	1380	230	0	300	--	75.9	:::	:::
T.5S., R.4W.																						
Sec. 8	Gila Bend	Maricopa	W. J. Sanderson	3/54	---	---	---	I	C4770	2.7	1913	120	23	529	780	260	0	190	11	74.5	11.5	C4-S3
Sec. 28	"	"	D. Woods	6/51	---	---	1	I-D	C2744	1.9	1349	68	15	442	450	130	0	244	--	80.6	12.8	C3-S3
Sec. 28	"	"	"	6/51	---	---	2	I-D	C2745	1.5	1015	45	11	278	310	90	0	281	--	79.2	9.5	C3-S2
Sec. 32	"	"	A. H. Stout	9/51	346	---	2	I	C2926	9.8	6842	630	105	1656	2730	1440	0	281	--	64.2	:::	:::
T.5S., R.6W.																						
Sec. 2	"	"	S. L. Narramore	3/59	420	---	3	I-S	555-W	1.7	978	63	14	257	378	100	0	166	--	72.2	7.6	C3-S2
Sec. 3	"	"	"	3/59	535	---	4	I-S	556-W	3.2	1924	67	25	583	764	270	T	215	--	83.0	15.5	C4-S4
Sec. 4	"	"	C. W. Scissen	4/59	1100	150	---	I-S	586-W	8.5	5463	238	142	1530	2360	900	0	293	--	74.0	:::	:::
Sec. 11	"	"	Sisson Ranch	4/59	1100	150	---	I	571-W	1.9	1096	39	5	346	445	115	0	146	--	86.0	14.3	C3-S3
Sec. 12	"	"	S. L. Narramore	3/59	440	160	1	I-S	554-W	3.7	2203	161	43	563	954	280	0	202	--	68.0	10.3	C4-S3
Sec. 12	"	"	"	3/59	975	---	2	I-S	557-W	1.7	1088	54	12	297	333	180	0	212	--	78.0	9.5	C3-S2
Sec. 13	Citrus Valley	"	C. O. Huff	8/60	252	69	---	I	76973	8.0	4691	392	161	922	2310	650	0	249	7	48.4	:::	:::
Sec. 13	"	"	J. Wesson	4/51	---	---	1	I	C2583	5.2	3669	330	75	882	1674	420	0	288	--	62.9	:::	:::
T.5S., R.7W.																						
Sec. 1	Gila Bend	"	K. Taylor	8/50	---	---	1	I	C2095	8.9	6225	450	131	1627	2860	860	0	290	7	68.0	:::	:::
Sec. 1	"	"	"	8/50	---	---	2	I-D	C2096	1.7	1203	38	4	396	264	120	0	115	2	88.7	16.9	C3-S4
T.5S., R.8W.																						
Sec. 3	"	"	A. E. Pettit	5/58	---	---	10	I	71067	1.6	1118	48	7	336	398	236	0	93	--	83.0	12.0	C3-S3
T.5S., R.9W.																						
Sec. 8	Sentinel	"	F. Wuertz	5/53	---	---	Elfine	I	C4203	1.2	832	15	4	268	240	200	0	102	3	91.6	16.0	C3-S3
Sec. 8	"	"	"	5/53	---	---	Rockaway	I	C4204	1.0	711	8	4	231	196	160	0	107	5	93.6	18.2	C3-S4

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.5S., R.10W.																						
Sec. 2	Agua Caliente	Maricopa	P. L. Porter	10/52	112	---	---	I	C3832	6.8	4733	465	150	993	1980	840	0	305	--	54.8	:::	:::
Sec. 5	"	"	R. O. Sharp	5/56	---	---	1	I	C6467	5.3	3688	480	23	778	1530	740	0	49	64	56.7	9.3	:::
Sec. 5	"	"	"	5/56	---	---	2	I	C6468	10.1	7058	1088	75	1316	3054	1350	0	51	124	48.6	:::	:::
Sec. 16	"	"	J. Robertson	2/53	70	---	---	I	C4020	1.0	731	8	4	243	214	170	7	81	4	93.5	18.0	C3-S4
Sec. 18	"	"	O. A. Suggs	6/61	20	10	---	IDS	78514	1.2	644	6	4	211	202	122	2	85	6	93.6	17.0	C3-S4
Sec. 20	"	"	Eagle Grey Scout	10/53	20	15	---	I	63344	1.3	896	30	4	276	270	218	0	98	--	86.7	5.8	C3-S2
Sec. 23	"	"	J. W. McGann	8/58	100	29	---	I	71449	6.1	4380	278	139	1104	2020	512	0	327	--	65.4	:::	:::
Sec. 31	"	"	W. L. Hosteter	4/52	86	---	---	I	C3361	4.4	3068	375	30	671	1276	540	0	176	--	57.9	9.0	C4-S3
Sec. 31	"	"	F. Wuertz	4/53	---	---	3	I-D	C4109	5.3	3713	300	128	852	1670	580	0	183	--	59.2	:::	:::
Sec. 32	"	"	"	4/53	---	---	2	I-D	C4108	6.3	4421	450	150	889	1820	800	0	312	--	52.6	:::	:::
Sec. 32	"	"	F. Krause	6/53	---	---	---	I	C4228	9.1	6344	413	150	1613	2250	1750	0	168	--	68.0	:::	:::
Sec. 32	"	"	F. Wuertz	12/54	---	---	---	I	C5277	6.1	4234	525	169	720	1830	720	0	268	2	43.8	:::	:::
T.5S., R.11W.																						
Sec. 1	Hyder	Yuma	V. Merrill	12/59	900	---	4	I	74822	1.1	587	13	3	187	180	120	4	73	7	90.0	12.0	C3-S3
Sec. 2	"	"	P. L. Porter	11/57	1000	710	---	I	69445	0.8	566	8	2	168	177	104	0	107	--	92.8	14.0	C3-S3
Sec. 10	"	"	"	5/53	510	---	---	I	C4202	0.9	596	8	4	194	188	110	0	83	9	92.5	15.5	C3-S3
T.5S., R.12W.																						
Sec. 3	"	"	J. Willard	2/50	560	---	---	I	C1655	0.8	588	23	4	163	130	100	0	168	--	83.2	9.5	C3-S2
Sec. 3	"	"	"	8/50	520	---	---	I	C2149	0.8	575	15	4	167	126	100	0	163	--	87.2	10.0	C3-S2
SW¼ Sec. 4	Dateland	"	White Wing Ranch	2/62	350	154	15	I	80076	2.2	1244	141	30	250	524	153	2	108	36	53.4	5.0	C3-S2
Sec. 16	Horn	"	P. L. Porter	8/52	---	---	1	I	C3610	2.8	1966	135	53	470	720	320	0	268	--	64.8	8.8	C4-S3
T.16S., R.10W.																						
S½,S½ Sec. 31	Sentinel	Maricopa	Artex Land Co.	3/61	1200	120	1	I	77809	1.1	649	14	5	197	173	122	0	137	1	88.5	11.5	C3-S3
SW¼,SW¼ Sec. 34	"	"	"	3/61	1200	89	2	I	77810	1.3	678	13	2	227	224	180	7	24	1	92.5	15.0	C3-S3
T.6S., R.11W.																						
Sec. 4	Aztec	Yuma	J. C. Mitchell	3/55	200	---	1	I	C5404	4.4	3054	270	98	638	1040	720	0	288	--	56.3	8.5	C4-S3
Sec. 4	"	"	"	3/55	270	---	2	I	C5405	6.8	4740	195	68	1362	1520	1180	0	415	--	79.4	:::	:::
Sec. 4	"	"	"	3/55	140	---	3	I	C5406	6.5	4571	450	143	923	1640	1020	0	395	--	54.0	:::	:::
T.6S., R.12W.																						
Sec. 17	Dateland	"	P. L. Porter	8/52	---	---	2	I	C3611	11.8	8223	480	210	2115	2940	2050	0	415	13	69.0	:::	:::
Sec. 17	"	"	Yolo Ranch	10/60	100	40	1	I	77194	3.2	2045	147	68	463	784	310	0	273	--	60.9	7.9	C4-S2
Sec. 17	"	"	"	10/60	100	40	2	I	77195	5.0	3271	166	82	864	1228	606	0	322	3	71.4	:::	:::
Sec. 17	"	"	"	10/60	---	---	1	I	77213	3.0	2116	50	33	639	688	455	0	204	47	84.2	17.5	C4-S4
Sec. 17	"	"	"	10/60	---	---	3	I	77196	6.1	4213	222	113	1100	1612	825	0	332	9	70.2	:::	:::
Sec. 17	"	"	"	10/60	---	---	4	I	77197	4.3	2744	125	74	730	1020	513	0	268	14	72.1	12.7	C4-S4
Sec. 18	"	"	"	10/60	---	---	5	I	77198	8.0	5309	356	220	1205	2220	950	0	344	14	59.4	:::	:::
Sec. 18	"	"	"	10/60	---	---	6	I	77199	7.2	5004	304	151	1242	1924	1025	0	346	12	66.3	:::	:::
Sec. 18	"	"	"	10/60	---	---	7	I	77200	5.9	3894	268	76	994	1504	725	0	322	5	68.8	:::	:::
T.6S., R.13W.																						
NW¼ Sec. 14	Clampton	"	J. Kai	1/63	---	---	1	I	81812	1.8	1109	25	13	331	269	285	10	176	--	86.2	13.5	C3-S3
NW¼ Sec. 14	"	"	"	1/63	---	---	2	I	81813	5.0	3317	324	121	630	1172	670	0	400	1	51.1	7.5	C4-S3
T.6S., R.21W.																						
SE¼,SW¼ Sec. 30	Yuma	"	Gila Project	7/63	Main Canal at Imperial Dam			I	82665	1.3	796	92	34	105	118	280	1	166	1	38.0	2.1	C3-S1
T.7S., R.4W.																						
Sec. 6	Gila Bend	Maricopa	B. Broderson	1/58	1150	373	---	I	69728	1.1	786	9	5	230	128	138	0	276	--	92.0	15.0	C3-S3
T.7S., R.6W.																						
Sec. 8	Black Gap	"	D. J. Morgan	11/59	---	200	---	I	74706	3.5	2024	84	12	638	892	300	0	98	--	84.1	17.0	C4-S4
Sec. 8	"	"	"	2/60	785	270	1	I	74986	1.7	906	40	2	284	374	137	0	59	10	85.0	12.0	C3-S3

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.7S., R.10W.																						
Sec. 32	Stanwix	Maricopa	E. J. Maybury	5/52	120	100	---	I	61956	1.0	734	83	4	229	198	161	0	59	--	68.9	6.5	C3-S2
T.7S., R.11W.																						
Sec. 8	Aztec	Yuma	W. L. Crosby	3/61	800	90	---	I-D	77654	1.5	839	29	2	265	286	195	0	61	--	87.7	9.4	C3-S2
Sec. 36	"	"	E. J. Maybury	5/52	550	90	---	I	61957	1.2	827	83	4	260	222	170	0	88	--	71.6	7.5	C3-S2
Sec. 36	"	"	G. R. Rogers	11/57	---	---	---	I	69440	1.0	712	18	6	202	205	196	0	85	--	86.8	11.3	C3-S2
T.7S., R.12W.																						
Sec. --	Dateland	"	F. E. McLaws	3/50	522	---	---	I	57905	1.0	704	23	8	205	196	168	0	95	--	80.5	0.8	C3-S1
Sec. 14	Aztec	"	H. J. McKenzie	8/52	416	93	---	I	C3599	1.0	698	8	4	217	208	170	85	6	--	93.2	17.0	C3-S3
Sec. 19	"	"	J. H. Collins	3/50	678	---	I	I-D	57830	1.4	984	23	11	300	308	247	0	85	--	86.4	13.0	C3-S3
Sec. 19	Dateland	"	Dateland Farms, Inc.	6/52	678	30	---	I-D	62083	1.4	946	68	8	250	316	194	0	110	--	72.8	7.5	C3-S2
Sec. 19	"	"	"	3/54	678	30	---	I-D	63715	1.4	985	45	4	293	314	240	0	85	--	83.1	10.8	C3-S3
Sec. 20	"	"	H. Johnson	4/56	---	---	---	I	C6353	1.1	786	30	4	240	252	180	T	73	7	85.2	10.5	C3-S2
Sec. 25	"	"	John Kai	1/63	500	---	1	I	81774	1.2	677	18	2	213	198	164	0	78	4	89.7	13.0	C3-S3
T.7S., R.13W.																						
Sec. 3	"	"	W. J. Isley	7/53	100	35	---	I	63094	4.8	3383	578	15	142	1660	654	0	334	--	16.9	1.7	C4-S1
Sec. 24	"	"	Dateland Farms, Inc.	6/52	123	78	2	I-D	62084	2.3	1592	75	11	472	552	348	0	134	--	81.5	13.5	C4-S3
T.7S., R.14W.																						
Sec. 2	Burger	"	B. J. Russell	6/58	180	50	---	I	71060	3.6	2599	184	36	653	738	800	T	188	--	70.0	11.5	C4-S3
T.7S., R.15W.																						
SE¼ Sec. 30	Tyson	"	W. J. LaJoie	1/61	300	240	---	I-D	77428	1.8	1122	47	8	303	212	258	0	293	1	81.3	10.6	C3-S3
T.7S., R.16W.																						
Sec. 18	Roll	"	D. Bancroft	9/55	93	14	---	Drain	66175	4.6	3192	242	111	697	1110	690	0	342	--	58.8	9.3	C4-S3
Sec. 23	"	"	W. T. Wright	2/51	---	---	---	I	60110	19.8	13883	458	56	4570	6080	2140	0	529	--	87.8	:::	:::
T.7S., R.17W.																						
Sec. 12	"	"	H. L. Gibson	9/55	---	---	---	---	66174	5.2	3648	305	46	692	890	1300	0	415	--	61.0	9.7	:::
T.7S., R.22W.																						
SE¼,SE¼ Sec. 22	Yuma	"	Gila Project	7/63	Main Canal*		2	I	82666	1.3	764	96	28	99	118	255	1	166	1	37.8	2.4	C3-S1
T.8S., R.13W.																						
Sec. 5	Stoval	"	Anderson Development Corporation	5/60	85	8	1	I-S	76287	12.0	8399	995	390	1390	3660	1550	0	414	--	42.4	:::	:::
T.8S., R.16W.																						
Sec. 18	Roll	"	D. Davidson	2/55	---	35	---	I	65421	4.3	2986	322	114	534	1128	490	0	398	--	47.6	6.5	C4-S2
Sec. 18	"	"	D. Beecroft	2/55	100	35	---	I	65422	4.2	2929	290	134	536	1262	390	0	317	--	48.0	6.6	C4-S2
T.8S., R.17W.																						
Sec. 16	"	"	W. T. Wright	2/51	100	15	---	I	60106	8.5	5932	353	4	1790	2440	936	0	405	--	81.3	:::	:::
Sec. 16	"	"	"	2/51	120	15	---	I	60107	11.5	8026	353	8	2538	3220	1340	0	568	--	85.7	:::	:::
Sec. 16	"	"	R. B. Wright	2/54	---	---	---	I	63729	3.9	2840	233	11	716	1016	466	0	293	--	71.2	12.5	C4-S4
Sec. 17	"	"	W. T. Wright	2/51	110	12	---	I	60109	13.3	9284	375	38	3080	4640	1056	0	95	--	85.9	:::	:::
Sec. 19	"	"	F. L. Duncan	12/50	125	---	---	IDS	59825	4.8	3359	502	86	538	1406	461	0	366	--	42.0	5.8	C4-S2
Sec. 21	"	"	W. T. Wright	5/51	100	40	---	I	60718	5.1	3559	225	28	992	1446	512	0	346	--	76.0	:::	:::
Sec. 21	"	"	"	2/57	96	25	---	I	68115	5.4	3753	200	104	994	1600	550	0	305	--	70.0	:::	:::
Sec. 24	"	"	C. Quigley	4/62	468	82	1	I-D	80463	1.6	987	7	1	340	321	203	5	106	4	97.2	:::	:::
Sec. 34	"	"	J. O. Absher	3/50	350	140	---	I-D	57834	3.9	2713	255	19	694	1030	670	0	44	--	67.8	11.3	C4-S3

*Recorder Station ¼ mile below turnout from Gila Gravity Main Canal

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.8S., R.18W.																						
Sec. 27	Wellton	Yuma	E.S.J. Irvine	2/50	100	40	---	I	56778	5.6	3927	443	0	989	1908	322	0	264	--	66.0	:::	:::
Sec. 27	"	"	"	1/51	---	---	---	I-D	59944	5.2	3643	465	109	661	1630	417	0	361	--	47.1	7.2	:::
T.8S., R.19W.																						
Sec. 19	"	"	W. J. Isley	3/53	100	35	---	I-D	62709	7.0	4880	525	4	15	3600	510	0	224	--	2.3	0.2	:::
Sec. 24	"	"	"	7/52	100	35	---	I-D	62192	5.2	3648	458	45	750	1434	600	0	361	--	55.0	8.9	:::
Sec. 35	"	"	A. Marlatt	9/52	---	---	1	I-D	62408	7.5	5239	585	0	1404	2864	214	0	271	--	67.6	:::	:::
Sec. 35	"	"	"	9/52	---	---	2	I-D	62409	6.7	4662	563	8	1153	2490	183	0	264	--	63.5	:::	:::
Sec. 35	"	"	"	9/52	---	---	3	I-D	62410	6.6	4642	578	4	1091	2476	282	0	210	--	61.8	:::	:::
Sec. 35	"	"	"	7/53	---	---	---	IDS	63095	16.3	11382	570	15	3768	6008	970	0	49	--	84.6	:::	:::
Sec. 35	"	"	"	7/53	---	---	---	IDS	63096	13.0	9102	585	11	2814	4540	1072	0	78	--	80.2	:::	:::
Sec. 35	"	"	"	9/54	Varying		---	I	64764	8.1	5633	432	72	1617	3276	190	0	46	--	71.8	:::	:::
Sec. 35	"	"	"	9/54	Varying		---	I	64765	13.3	9290	407	77	3680	4858	190	0	78	--	85.7	:::	:::
Sec. 36	"	"	"	9/52	---	---	---	I	62276	9.3	6526	900	15	1483	3400	450	0	278	--	58.2	:::	:::
Sec. 36	"	"	"	9/52	---	---	---	I-D	62286	7.1	4995	308	0	1600	2800	150	0	137	--	81.8	:::	:::
Sec. 36	"	"	"	9/52	---	---	---	I-D	62287	4.6	3227	358	0	812	1460	360	0	242	--	66.3	11.8	C4-S4
Sec. 36	"	"	"	9/52	---	---	---	I-D	62288	7.4	5160	488	0	1404	2360	600	0	308	--	71.4	:::	:::
Sec. 36	"	"	J. Rohrbough	11/57	118	10	---	I	69563	6.8	4747	342	200	1083	2255	650	0	217	--	58.4	:::	:::
Sec. 36	"	"	"	11/57	---	---	---	I	69564	13.1	9177	755	417	2020	4905	890	0	190	--	54.9	:::	:::
Sec. 36	"	"	"	5/60	12	6	1	I	76346	7.2	4951	347	198	1132	2180	783	0	281	27	59.4	:::	:::
T.8S., R.20W.																						
Sec. 8	Dome	"	L. Jones	11/49	---	---	---	I	56088	4.3	2987	210	15	851	1380	230	0	300	--	75.9	:::	:::
Sec. 19	Ligurta	"	M. & L. Stetsenburge	11/59	28	21	---	I	74632	8.9	6248	214	80	1888	2220	1475	0	366	--	82.5	:::	:::
T.8S., R.21W.																						
$SW\frac{1}{4},SE\frac{1}{4}$ Sec. 8	Dome	"	Gila Project*	7/63	Canal		3	I	82667	1.3	758	97	27	98	118	250	1	166	1	37.8	2.2	C3-S1
Sec. 19	"	"	Yuma Irrigation District	5/60	---	---	78 #	I	76340	3.1	2663	111	58	676	560	750	0	508	--	74.1	12.9	C4-S3
Sec. 28	"	"	J. Dunn	7/61	---	---	1	I	78475	3.3	2146	186	77	440	831	295	0	317	1	55.0	6.8	C4-S2
T.8S., R.22W.																						
$NW\frac{1}{4},SW\frac{1}{4}$ Sec. 18	Yuma	"	Pete Powers *** ****	10/62	173	1	---	I	(C-8-22) 18cbd	3.4	1870	162	63	434	748	275	0	326	--	58.6	7.3	C4-S2
$SE\frac{1}{4},SW\frac{1}{4}$ Sec. 22	"	"	Yuma Irrigation District	5/60	---	19	32 #	I	76334	1.7	1009	96	40	164	270	97	0	342	--	46.8	5.0	C3-S1
$NW\frac{1}{4},NW\frac{1}{4}$ Sec. 25	"	"	"	5/60	---	19	49a #	I	76338	5.5	4445	314	147	1044	1810	813	0	317	--	62.0	:::	:::
$SW\frac{1}{4}$ Sec. 26	"	"	"	5/60	153	19	41 #	I	76335	3.5	2615	224	97	553	1110	350	0	281	--	55.5	7.7	C4-S2
$N\frac{1}{2}$ Sec. 26	"	"	"	5/60	176	19	43 #	I	76336	1.6	1175	78	33	265	360	183	0	256	--	63.6	6.3	C3-S2
Sec. 26	"	"	L. S. Bradley	2/50	111	32	---	I-D	56576	1.6	1117	113	8	230	248	253	0	264	--	61.3	5.6	C3-S2
Sec. 26	"	"	K. Julian	8/58	---	---	A	I	71451	5.4	3747	343	153	770	1752	412	0	317	--	52.9	8.7	:::
Sec. 26	"	"	"	8/58	---	---	B	I	71452	4.4	3064	257	161	589	1380	360	0	317	--	49.5	7.1	C4-S3
Sec. 27	"	"	"	8/58	---	---	C	I	71453	2.1	1437	112	56	290	504	182	0	293	--	55.2	5.7	C3-S2
Sec. 27	"	"	"	8/58	---	---	D	I	71454	2.2	1513	100	44	342	454	300	0	273	--	63.3	14.1	C3-S4
Sec. 28	"	"	"	8/58	---	---	E	I	71455	2.6	1810	157	58	379	693	220	0	303	--	56.6	14.5	C4-S4
$SW\frac{1}{4},NW\frac{1}{4}$ Sec. 31	"	"	U. S. Bureau of Reclamation *** ****	11/62	216	4	---	Drain	(C-8-22) 31bcc	3.8	2380	235	90	468	820	680	0	130	1	51.4	6.5	C4-S2
$NE\frac{1}{4}$ Sec. 31	"	"	Yuma Irrigation District	5/60	---	19	14 #	I	76333	3.2	2327	211	76	488	930	354	0	268	--	55.7	7.3	C4-S2
Sec. 32	"	"	K. Julian	8/58	---	---	F	I	71456	3.3	2278	186	83	492	965	288	0	264	--	57.0	17.0	C4-S4
Sec. 32	"	"	"	8/58	---	---	G	I	71457	5.5	3817	367	160	754	1695	592	0	249	--	50.9	8.3	:::
Sec. 33	"	"	Yuma Irrigation District	5/60	151	19	69 #	I	76339	4.7	3697	348	147	734	1500	724	0	244	--	52.0	8.3	C4-S3

*50'upstream from inlet to syphon located 700' below Wellton-Mohawk check and turnout
***Furnished by U. S. Geological Survey
****Perforation information on page 95 of Table 6
#These are the same wells used in M. E. Willingham's thesis "Seasonal and Annual Changes in the Quality of Some Well Waters in the Gila River Valley Near Yuma, Arizona"

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.8S., R.22W.																						
Sec. 33	Yuma	Yuma	L. S. Bradley	8/58	154	70	---	I-D	56569	2.4	1683	113	11	456	610	214	0	278	--	75.1	11.0	C4-S3
NW¼,SW¼ Sec. 33	"	"	U. S. Bureau of Reclamation *** ****	2/62	214	10	---	Drain	(C-8-22) 33cbb	4.8	2790	255	93	638	1260	376	0	289	T	57.6	8.7	C4-S3
SE¼,NE¼ Sec. 33	"	"	" *** ****	11/62	241	18	---	Drain	(C-8-22) 33add	3.2	1800	170	70	392	825	212	0	216	1	54.4	6.4	C4-S2
SE¼,SW¼ Sec. 35	"	"	Yuma Irrigation District	5/60	170	19	48 #	I	76337	3.5	2592	215	90	568	1100	375	0	244	--	57.6	8.2	C4-S3
SW¼,SW¼ Sec. 35	"	"	Arizona Western College ***	8/63	600	83	---	I-D	(C-8-22) 35ccb	1.5	843	73	13	225	313	75	0	248	--	67.4	6.4	C3-S2
Sec. 36	"	"	J. Dunn	7/61	---	---	3	I-D	78477	6.7	4574	338	156	1035	1774	890	0	376	5	60.2	:::	:::
T.8S., R.23W.																						
Sec. 2	"	"	J. F. Taylor	8/52	150	5½	1	I	62218	1.6	1128	150	4	219	370	131	0	253	--	54.8	4.8	C3-S2
Sec. 2	"	"	"	8/52	---	---	2	I	62219	1.8	1261	113	4	300	336	334	0	163	--	68.5	7.5	C3-S2
SW¼,SE¼ Sec. 12	"	"	Kenneth Easterday *** ****	11/62	173	15	---	I	(C-8-23) 12cca	2.9	1550	177	58	310	615	200	0	340	--	54.7	5.8	C4-S2
NW¼,NW¼ Sec. 26	"	"	Yuma Irrigation District	5/60	183	19	2 #	I	76331	3.8	2955	263	104	593	1060	513	0	422	--	54.4	7.8	C4-S3
SE¼,NW¼ Sec. 33	"	"	St. Francis Catholic Church ***	10/61	318	---	---	I	(C-8-23) 33bdb	3.4	2160	168	59	519	675	588	0	247	3	63.0	8.8	C4-S3
SW¼,NE¼ Sec. 35	"	"	Yuma Irrigation District	5/60	---	19	5 #	I	76332	3.1	2377	170	71	540	790	525	0	281	--	62.2	8.8	C4-S3
SW¼,SE¼ Sec. 36	"	"	Federal Compress Company *** ****	5/62	302	76	---	Ind.	(C-8-23) 36dcc	3.5	2220	172	68	499	510	825	0	266	--	60.4	8.2	C4-S2
T.9S., R.16W.																						
Sec. 4	Colfred	"	W. T. Lawrence	7/62	905	163	---	I-D	80721	4.2	2822	185	8	765	604	1220	0	34	3	77.0	15.0	C4-S4
T.9S., R.19W.																						
Sec. 2	Wellton Hills	"	A. Marlatt	1/53	118	15	---	I	62611	4.0	2830	172	15	823	1150	450	0	220	--	78.4	:::	:::
Sec. 2	"	"	"	7/53	118	24	---	IDS	63098	4.2	2941	232	11	794	1142	508	0	249	--	73.4	13.5	C4-S4
Sec. 2	Wellton	"	"	9/54	Varying		---	I	64762	2.3	1636	100	54	400	712	140	0	230	--	64.8	8.0	C4-S2
Sec. 2	"	"	"	9/54	Varying		---	I	64763	3.7	2595	192	86	623	1260	180	0	254	--	61.9	9.4	C4-S3
Sec. 5	"	"	E. S. J. Irvine	10/51	120	40	---	IDS	63190	10.0	6990	390	38	2021	2448	1690	0	403	--	79.5	:::	:::
Sec. 10	"	"	B. Colford	2/51	100	45	---	I-D	60721	2.7	1871	83	11	538	732	275	0	232	--	82.2	15.0	C4-S4
T.9S., R.22W.																						
NE¼,NW¼ Sec. 1	Yuma	"	Gila Project**	7/63	---	---	4	I	82668	1.2	755	94	29	98	118	252	2	161	1	37.8	2.2	C3-S1
Sec. 12	"	"	Unknown	12/59	450	120	---	I	74675	2.2	1290	64	14	362	476	120	0	254	--	78.5	10.8	C3-S3
T.9S., R.23W.																						
SW¼,SW¼ Sec. 20	"	"	Yuma City Water Users' Association *** ****	2/63	262	---	---	Drain	(C-9-23) 20cdd	2.7	1580	143	41	353	442	450	0	353	--	59.2	6.7	C4-S2
T.9S., R.24W.																						
SE¼,NE¼ Sec. 19	"	"	J. Sterling *** ****	6/62	185	14	---	I	(C-9-24) 19bda	1.9	1220	180	46	167	212	462	0	272	--	36.1	2.8	C3-S1
Sec. 19	"	"	H. C. Williamson, Jr.	5/54	---	---	---	I-S	64315	5.7	3974	158	15	1217	1430	565	0	588	--	85.2	:::	:::
Sec. 19	"	"	"	8/62	150	40	---	I	80924	2.0	1429	182	46	192	220	485	0	300	3	39.5	3.4	C3-S1
T.10S., R.23W.																						
NW¼,NE¼ Sec. 12	Somerton	"	John Nutt*** ****	10/63	704	46	6	I	(C-10-23) 12abb	1.5	840	78	21	201	390	74	0	110	0.2	60.7	5.2	C3-S2
Sec. 12	"	"	E. F. Stark	8/59	250	50	---	I	73934	1.4	973	90	24	210	384	95	0	171	--	58.4	5.4	C3-S2
Sec. 12	"	"	W. Trussell	8/59	280	61	---	I	74147	1.7	1177	92	35	260	422	190	0	178	--	60.1	6.0	C3-S2
NW¼,NW¼ Sec. 31	"	"	U. S. Geological Survey ***	6/62	1000	85	---	Test	(C-10-23) 31bbd	1.9	1060	82	32	263	502	116	0	92	T	62.8	6.0	C3-S2

**at Afterbay Bridge crossing Yuma-Mesa pumping plant
***see footnote on previous page 56
****see footnote on previous page 56
#see footnote on previous page 56

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.10S., R.24W.																						
Sec. 3	Somerton	Yuma	Mrs. R. E. Berkshire	8/51	80	---	---	I-D	61100	1.9	1342	15	4	413	130	560	0	220	--	94.3	25.0	C3-S4
Sec. 15	"	"	J. L. Thompson	3/58	Colorado River			I	70312	1.5	1014	83	40	175	162	356	0	198	--	50.5	3.9	C3-S1
Sec. 15	"	"	J. Bethune	3/58	Colorado River			I	70626	1.4	1006	93	46	152	160	360	0	195	--	43.7	3.4	C3-S1
Sec. 22	"	"	C. A. Johnson	8/56	12	8	---	I-S	67197	2.3	1598	114	39	377	330	450	0	288	--	64.8	7.8	C4-S2
T.10S., R.25W.																						
SW¼,SE¼ Sec. 2	Yuma	"	Sid Jeffries ***	10/62	299	8	---	I	(C-10-25) 2dcb	1.2	683	96	28	106	137	150	0	288	--	39.2	2.2	C3-S1
NW¼,SW¼ Sec. 35	"	"	Les Barkley *** ****	7/63	303	10	---	I	(C-10-25) 35cab	1.6	1020	141	38	162	222	283	0	308	--	40.8	3.2	C3-S1
T.11S., R.24W.																						
SW¼,NW¼ Sec. 23	"	"	U. S. Geological Survey ***	4/63	1038	79	---	Test	(C-11-24) 23bcb	1.2	711	60	16	174	208	137	0	194	T	63.6	3.0	C3-S1
T.11S., R.25W.																						
NW¼,NW¼ Sec. 2	"	"	W. A. Brown *** ****	6/63	233	15	---	I	(C-11-25) 2bbb	1.6	957	126	41	152	199	258	0	320	--	40.5	5.3	C3-S2

***see footnotes on page 56
****see footnotes on page 56

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1S., R.2E.																						
Sec. 5	Laveen	Maricopa	W. W. Jones	8/51	380	---	---	I	C2876	2.0	1420	98	34	337	494	180	0	264	13	65.5	7.5	C3-S2
Sec. 5	"	"	Nick Truog	2/55	---	---	---	I	C5372	3.8	2643	150	53	666	780	530	0	444	20	70.8	11.8	C4-S3
Sec. 8	"	"	L. D. Miller	5/50	271	---	---	I	C1855	1.5	1065	83	34	241	454	70	0	183	--	60.1	5.8	C3-S2
Sec. 8	"	"	R. L. Tyson	6/58	400	100	---	I	71075	6.0	4228	430	140	814	1404	1140	0	300	3	51.7	:::	:::
Sec. 8	"	"	"	8/60	150	---	---	I-S	676-W	5.3	3569	346	152	660	1323	760	0	328	--	49.1	7.5	:::
Sec. 9	"	"	W. E. Larsen	7/59	---	---	---	I-D	73778	3.9	2771	265	107	512	880	680	0	327	--	50.4	7.0	C4-S3
Sec. 18	"	"	C. O. Pitrat & Son	6/60	500	280	---	I	76512	3.2	2224	162	68	589	840	345	0	210	10	65.2	9.9	C4-S3
Sec. 29	"	"	Bob Tyson	3/56	---	---	---	I	C6236	6.2	4332	150	75	1238	1416	780	0	673	--	79.7	:::	:::
Sec. 33	Tolleson	"	Jim Pollard	1/53	---	---	---	I	C3969	3.3	2331	158	56	543	682	480	0	376	36	65.4	9.4	C4-S3
Sec. 34	Laveen	"	Howard McCulloch	7/56	106	---	---	I	C6700	3.4	2366	157	98	498	788	380	0	410	35	57.5	7.8	C4-S2
T.1S., R.4E.																						
Sec. 3	Chandler	"	SRVWUA	3/60	400	176	---	I	21763	2.3	1262	124	50	281	521	134	0	291	9	54.1	5.5	C4-S2
Sec. 6	"	"	"	4/63	224	120	---	I	22528	4.3	2474	246	93	531	1021	355	0	376	43	53.5	7.4	C4-S3
Sec. 18	"	"	George Coffin	6/51	440	235	---	I	C2814	2.3	1595	210	34	204	642	230	0	181	4	40.0	3.4	C4-S1
Sec. 19	"	"	Helen Brinton	2/55	---	---	---	I-D	C5366	1.9	1308	75	41	327	552	120	0	190	3	66.6	7.5	C3-S2
Sec. 19	"	"	"	2/55	---	---	---	I-D	C5383	3.1	2200	308	64	350	736	620	0	122	--	42.4	4.5	C4-S2
Sec. 26	"	"	Arthur Price	1/59	400-600	150-200	5	I	72455	3.0	2102	104	52	521	650	240	0	508	27	70.5	10.5	C4-S3
Sec. 27	"	"	West Chandler Farms	11/58	350	250	3	I	533-W	2.9	1956	72	46	523	630	250	0	435	--	75.5	11.9	C4-S3
Sec. 28	"	"	"	11/58	350	250	2	I	532-W	3.8	2694	139	88	636	788	560	0	483	--	66.1	10.4	C4-S3
Sec. 29	"	"	"	11/58	350	250	1	I	531-W	3.5	2305	208	78	467	804	480	0	268	--	54.7	7.0	C4-S2
Sec. 33	"	"	Arthur Price	12/61	250	90	---	I	792-W	6.3	4302	220	122	1108	1636	780	0	420	--	69.0	:::	:::
Sec. 33	"	"	"	1/59	400-600	150-200	4	I	72454	6.2	4342	184	98	1212	1729	640	0	454	27	75.4	:::	:::
Sec. 36	"	"	"	1/59	400-600	150-200	---	I	72451	8.8	6184	629	205	1285	2804	1000	0	254	7	53.6	:::	:::
Sec. 36	"	"	"	1/59	400-600	150-200	---	I	72453	6.3	4399	293	108	1108	1798	680	0	390	22	67.1	:::	:::
Sec. 36	"	"	"	7/59	400-600	150-200	3	I	73779	6.2	4083	310	104	999	1740	725	0	205	--	64.5	:::	:::
Sec. 36	"	"	"	7/59	400-600	150-200	---	I	72456	1.9	1354	163	49	214	457	200	0	238	33	43.4	3.8	C3-S1
T.1S., R.5E.																						
Sec. 4	"	"	SRVWUA	8/60	1000	244	---	I	21903	2.2	1158	71	43	308	457	121	0	266	27	65.3	7.0	C3-S2
Sec. 6	"	"	Cliff Dobson	12/50	---	---	---	I	C2372	2.1	1479	105	30	327	392	130	0	483	12	64.8	7.1	C3-S2
Sec. 8	"	"	Earl Dobson	7/50	245	---	---	I	C2033	2.6	1837	113	38	435	514	210	0	508	19	68.4	8.8	C4-S2
Sec. 10	Mesa	"	L. R. Layton	4/58	566	165	3-IA	I	70754	2.6	1790	141	78	350	618	288	0	315	--	53.0	5.8	C4-S2
Sec. 22	"	"	SRVWUA	2/61	800	246	---	I	22006	3.0	1646	177	53	361	695	224	0	225	25	54.2	6.1	C4-S2
Sec. 31	Chandler	"	"	9/61	235	131	---	I	22188	5.9	3391	275	104	837	1447	504	0	374	40	62.0	:::	:::
Sec. 31	"	"	L. L. Ashley	4/52	324	---	---	I	C3321	2.9	2028	210	38	420	660	360	0	317	23	57.3	7.0	C4-S2
Sec. 32	"	"	Cliff Dobson	12/50	---	---	---	I	C2371	2.1	1446	105	34	311	390	120	0	478	8	62.7	6.6	C3-S2
Sec. 32	"	"	"	12/50	---	---	---	I	C2374	2.1	1446	83	41	333	442	110	0	425	12	65.8	7.5	C3-S2
Sec. 32	"	"	Bogle Farms	4/63	---	---	10	I	82165	3.7	2467	314	84	394	826	570	T	244	35	43.1	2.8	C4-S1
T.1S., R.6E.																						
Sec. 10	Higley	"	SRVWUA	2/61	450	344	---	I	21993	1.7	931	132	39	146	321	152	0	160	62	39.2	2.8	C3-S1
Sec. 13	"	"	Hugh Nichol	8/56	1625	---	---	I-D	C6785	1.2	850	136	39	62	208	210	0	195	60	21.2	1.3	C3-S1
Sec. 21	"	"	SRVWUA	5/59	1000	317	---	I	21551	1.3	641	80	30	113	272	90	0	96	9	43.0	2.8	C3-S1
T.1S., R.18E.																						
Sec. 12	San Carlos	Pinal	Bureau of Indian Affairs	1/62	---	---	SC River	I	-----	0.8	----	(3.8 e.p.m.)		84	133	2	-	208	--	48.6	2.6	C3-S1
Sec. 12	"	"	"	1/62	---	---	SC Agency	I-D	-----	0.9	----	(4.7 e.p.m.)		106	107	36	-	331	--	49.1	3.0	C3-S1
Sec. 24	"	"	"	1/62	---	---	Peridot #1	I	-----	0.8	----	(4.6 e.p.m.)		68	56	42	-	315	--	39.1	1.9	C3-S1
Sec. 24	"	"	"	1/62	---	---	Peridot #2	I	-----	0.8	----	(4.4 e.p.m.)		108	64	69	-	332	--	51.8	3.2	C3-S1
Sec. 25	"	"	"	1/62	---	---	Peridot #3	I	-----	1.2	----	(6.4 e.p.m.)		110	142	33	-	404	--	42.9	2.7	C3-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.1S., R.19E.																						
Sec. 6	San Carlos	Pinal	Bureau of Indian Affairs	1/62	---	---	Old Folks Home	I-D	-----	0.6	----	(5.0 e.p.m.)		29	16	27	-	306	--	20.3	0.8	C2-S1
Sec. 29	"	"	"	5/63	---	---	CPS589-1	None	-----	6.5	----	(7.1 e.p.m.)		1242	1413	324	-	961	--	88.4	28.7	:::
Sec. 29	"	"	"	5/63	---	---	CPS589-2	None	-----	6.5	----	(7.1 e.p.m.)		1242	1565	90	-	947	--	88.4	28.7	:::
T.1S., R.29E.																						
Sec. 14	Granville	Greenlee	Gerald Foote	6/58	640	100	---	IDS	71143	3.0	2099	6	5	628	249	214	0	996	--	97.4	:::	:::
T.2S., R.4E.																						
Sec. 13	Ocotillo	Maricopa	Bogle Farms	4/63	---	---	Indian #1	I	82155	8.0	4828	947	261	348	2284	750	0	195	43	18.0	:::	:::
Sec. 13	"	"	"	4/63	---	---	Indian #2	I	82157	5.1	3251	463	146	460	1407	610	T	269	28	36.3	4.8	:::
Sec. 24	"	"	"	4/63	---	---	Indian #3	I	82158	6.8	4358	446	121	891	1628	975	T	269	28	54.6	:::	:::
Sec. 25	"	"	Woodrow Lewis	4/58	450	---	---	I	70751	1.4	971	104	22	191	322	171	T	161	--	54.1	4.4	C3-S1
T.2S., R.5E.																						
Sec. 4	Chandler	"	Bogle Farms	4/63	---	---	1	I	82156	3.8	2590	364	88	378	857	655	0	215	33	39.3	4.8	C4-S2
Sec. 7	"	"	Western Farms	4/50	---	---	---	I	C1788	3.5	2420	413	105	275	1072	370	0	185	27	29.0	3.2	C4-S2
Sec. 8	"	"	Bogle Farms	4/63	---	---	6	I	82162	4.5	2749	488	122	262	1093	485	0	259	40	24.9	2.7	C4-S2
Sec. 9	"	"	"	3/49	400	---	4	I	C929	2.9	2035	368	90	194	796	370	0	204	--	24.9	2.3	C4-S1
Sec. 9	"	"	"	4/53	---	---	4	I	C4122	2.7	1863	300	68	224	646	380	0	215	30	32.1	3.0	C4-S1
Sec. 9	"	"	"	9/53	---	---	4	I	C4441	2.6	1787	285	75	201	628	340	0	229	29	29.9	2.8	C4-S1
Sec. 9	"	"	"	4/57	---	---	4	I	68460	3.3	2304	411	70	267	870	460	0	220	--	29.9	3.2	C4-S1
Sec. 9	"	"	"	4/60	---	---	4	I	75976	3.9	2471	443	123	222	1056	413	0	186	28	22.9	2.4	C4-S1
Sec. 9	"	"	"	9/60	---	---	4	I	77039	3.9	2564	454	145	213	1124	425	0	190	13	21.2	2.2	C4-S1
Sec. 9	"	"	"	4/63	---	---	4	I	82160	4.5	2798	494	144	243	1179	500	0	200	38	22.5	:::	:::
Sec. 13	Ocotillo	"	John Cox	7/50	---	---	---	I	59162	3.2	2320	533	0	256	916	405	0	210	--	29.4	3.0	C4-S1
Sec. 17	"	"	Bogle Farms	3/49	400	---	17	I	C933	2.6	1795	255	56	189	714	330	0	234	--	32.1	2.8	C4-S1
Sec. 17	"	"	"	4/53	---	---	17	I	C4126	2.4	1688	255	64	215	574	340	0	220	23	34.1	3.1	C4-S1
Sec. 17	"	"	"	9/53	---	---	17	I	C4448	2.1	1485	225	60	186	548	240	0	195	31	33.3	2.8	C3-S1
Sec. 17	"	"	"	4/57	---	---	17	I	68468	3.0	2082	316	88	260	780	430	0	195	--	32.8	3.3	C4-S1
Sec. 17	"	"	"	4/60	---	---	17	I	75981	3.5	2240	382	94	244	892	440	0	166	22	28.3	2.8	C4-S1
Sec. 17	"	"	"	4/63	---	---	17	I	82167	4.3	2751	444	131	294	1051	570	0	231	30	28.0	3.1	C4-S2
Sec. 18	"	"	"	4/63	---	---	26	I	82173	7.3	4632	828	246	407	2020	850	0	231	50	22.3	:::	:::
Sec. 19	Goodyear	"	"	4/63	---	---	19	I	82169	6.5	2064	478	106	780	1571	845	T	244	40	66.7	8.0	:::
Sec. 20	"	"	"	4/63	---	---	27	I	82174	1.5	867	72	27	182	296	148	T	134	8	57.6	4.5	C3-S1
Sec. 21	"	"	"	4/53	---	---	21	I	C4128	1.5	1078	128	41	180	412	160	0	137	20	44.4	3.5	C3-S1
Sec. 21	"	"	"	9/53	---	---	21	I	C4451	1.9	1331	105	38	279	412	140	0	342	15	59.2	6.0	C3-S2
Sec. 21	"	"	"	4/57	---	---	21	I	68471	1.7	1220	149	35	219	454	220	0	137	--	47.9	4.2	C3-S1
Sec. 21	"	"	"	9/60	---	---	21	I	77061	3.4	2069	268	115	286	940	275	0	171	14	35.3	3.7	C4-S2
Sec. 21	"	"	"	4/63	---	---	21	I	82170	3.9	2317	320	131	288	979	425	T	146	28	31.9	3.5	C4-S2
Sec. 27	"	"	Harris Cattle Co.	9/60	---	---	20	I	689-W	2.6	1504	174	51	268	580	275	0	156	--	47.5	4.5	C4-S2
Sec. 28	"	"	"	9/60	---	---	10	I	687-W	5.0	3355	263	85	776	1144	863	0	224	--	62.6	10.5	C4-S3
Sec. 28	"	"	"	9/60	---	---	23	I	685-W	2.3	1432	133	44	296	492	365	0	102	--	55.7	5.6	C4-S2
Sec. 28	"	"	"	9/60	---	---	21	I	690-W	4.1	2451	174	60	615	1012	488	0	102	--	66.2	10.4	C4-S3
Sec. 29	"	"	Bogle Farms	4/63	---	---	29	I	82176	3.8	2335	240	97	421	877	475	0	195	30	47.7	5.8	C4-S2
Sec. 31	"	"	"	3/49	800	---	31	I	C986	1.2	869	90	11	181	248	150	0	185	--	59.2	4.8	C3-S1
Sec. 31	"	"	"	4/53	---	---	31	I	C4134	1.6	1145	98	26	247	350	200	0	220	4	60.4	5.8	C3-S2
Sec. 31	"	"	"	4/57	---	---	31	I	68479	2.2	1557	138	36	334	484	348	0	220	--	59.5	6.5	C3-S2
Sec. 31	"	"	"	4/60	---	---	31	I	75989	2.2	1359	136	41	265	472	245	0	195	5	53.2	5.3	C3-S2
Sec. 31	"	"	"	9/60	---	---	31	I	77063	2.6	1634	177	52	305	612	255	0	227	6	50.2	5.2	C4-S2
Sec. 31	"	"	"	4/63	---	---	31	I	82178	2.5	1511	200	17	286	530	250	T	220	8	52.2	5.2	C4-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.2S., R.5E.																						
Sec. 32	Goodyear	Maricopa	Bogle Farms	4/63	---	---	32	I	82179	4.5	2840	320	75	550	1030	625	0	220	20	51.8	7.2	C4-S3
Sec. 33	"	"	Harris Cattle Co.	9/60	---	---	24	I	692-W	3.0	1815	128	45	435	652	360	0	195	--	65.2	8.4	C4-S3
Sec. 33	"	"	"	9/60	---	---	22	I	691-W	2.6	1505	133	53	311	576	295	0	137	--	55.2	5.7	C4-S2
Sec. 34	"	"	"	9/60	---	---	16	I	688-W	5.3	3552	392	118	661	1292	850	0	239	--	49.5	7.5	C4-S3
Sec. 34	"	"	"	9/60	---	---	25	I	693-W	1.6	1108	48	18	300	288	293	5	156	--	77.1	9.5	C3-S2
T.2S., R.6E.																						
Sec. 2	Higley	"	Earl Ricker	12/50	---	---	---	I	C2375	1.0	681	113	26	71	234	70	0	156	11	28.3	1.6	C3-S1
Sec. 2	"	"	"	12/50	---	---	---	I	C2376	1.4	993	195	34	89	400	110	0	154	11	23.5	1.5	C3-S1
Sec. 7	"	"	J. A. Puffinberger	7/50	---	---	---	I	C2057	4.0	2766	675	105	148	1452	270	0	95	21	13.2	:::	:::
Sec. 9	Chandler	"	D. L. Hadley	5/50	---	---	---	I	C1887	1.4	977	173	34	105	388	90	0	156	31	28.4	1.9	C3-S1
Sec. 26	"	"	F. M. Palmer	3/50	700	---	---	I-D	C1658	0.7	497	23	4	143	164	70	0	90	3	80.8	7.5	C2-S2
Sec. 28	Chandler Heights		G. W. Leech	6/51	600	---	---	I	C2800	0.9	638	75	26	96	212	70	0	159	--	39.5	2.5	C3-S1
Sec. 32	"	"	L. Sawyer	5/57	800	180	---	I-S	420-W	0.8	693	59	15	159	256	102	0	102	--	62.0	7.0	C3-S2
Sec. 34	"	"	G. W. Leech	7/50	444	---	---	I	C2058	0.8	559	30	8	148	174	80	0	117	2	74.9	6.4	C3-S2
Sec. 36	"	"	Chandler Heights Irrigation District	10/45	---	---	1	I	47780	0.8	542	53	0	130	177	70	0	109	--	68.0	5.0	C3-S1
Sec. 36	"	"	"	9/54	---	---	1	I	C5170	0.9	622	45	8	148	172	80	0	161	8	68.9	5.4	C3-S1
Sec. 36	"	"	"	6/63	---	---	1	I	82632	0.9	528	33	5	138	163	89	0	98	--	74.5	5.8	C3-S1
T.2S., R.7E.																						
Sec. 13	Queen Creek	"	Arid-Zone Farms	7/58	---	---	1	I	71356	0.8	538	61	24	72	150	60	0	171	--	38.5	2.0	C3-S1
Sec. 13	"	"	"	12/55	---	---	1	I	C6073	0.8	545	67	15	83	144	60	0	171	5	44.0	2.5	C3-S1
Sec. 18	"	"	"	12/55	---	---	3	I	C6075	0.7	521	67	15	74	132	60	0	166	7	41.2	2.2	C2-S1
Sec. 18	"	"	"	7/58	---	---	3	I	71358	0.8	557	65	21	79	146	70	0	176	--	40.7	2.1	C3-S1
Sec. 20	"	"	W. Nelson	9/63	985	600	---	I	83692	0.8	526	57	11	96	147	59	0	154	2	52.6	3.0	C3-S1
Sec. 31	Chandler Heights	"	Chandler Heights Irrigation District	10/45	356	---	3	I	47782	0.8	538	38	3	137	161	56	0	141	--	73.5	5.8	C3-S1
Sec. 31	"	"	"	6/63	---	---	3	I	82633	0.9	555	37	8	135	163	72	0	137	--	70.0	5.1	C3-S1
Sec. 31	"	"	"	10/45	310	226	4	I	47783	0.9	633	60	0	150	189	72	0	156	--	65.3	3.5	C3-S1
Sec. 31	"	"	"	9/54	---	---	4	I	C5169	0.8	561	38	8	136	156	70	0	151	2	69.7	5.0	C3-S1
Sec. 36	Queen Creek	"	Boyd Lisenbee	6/61	---	---	---	I	78416	0.9	568	58	15	102	162	50	0	175	5	51.8	3.2	C3-S1
T.2S., R.8E.																						
Sec. 13	"	Pinal	Arid-Zone Farms	12/55	---	---	2	I	C6074	0.8	549	67	15	84	144	60	0	176	3	44.4	2.5	C3-S1
Sec. 13	"	"	"	7/58	---	---	2	I	71357	0.8	558	63	14	92	144	60	0	185	--	48.1	2.8	C3-S1
Sec. 16	"	"	D. Schnepf	9/63	600	510	---	I	83686	0.6	402	50	10	54	53	62	0	171	2	41.5	1.7	C2-S1
Sec. 27	"	"	E. L. Shahan	9/63	1000	480	---	I	83683	0.8	539	62	12	93	143	79	0	147	3	49.4	2.8	C3-S1
Sec. 30	"	"	R. Metcalf	4/55	500	---	---	I	178-W	0.7	611	59	18	108	158	78	0	190	--	51.0	3.1	C2-S1
Sec. 32	"	"	J. O. Combs	9/63	1010	520	---	I	83684	0.9	589	66	12	103	155	65	0	183	5	50.8	3.0	C3-S1
T.2S., R.12E.																						
Sec. 35	Superior	"	W. E. Hughes	5/50	Spring		---	IDS	58838	0.5	335	30	26	16	12	T	0	251	--	16.1	0.5	C2-S1
T.3S., R.5E.																						
Sec. 24	Sweetwater	"	San Carlos Irr.	3/49	202	53	69	I	54434	1.5	1022	105	19	212	294	321	0	71	--	57.5	4.8	C3-S1
Sec. 24	"	"	"	8/63	648	---	69	I	83033	1.7	1167	79	15	294	326	310	0	142	1	71.1	7.8	C3-S2
Sec. 28	"	"	"	8/63	164	78	53	I	83034	1.7	1242	125	26	241	318	270	0	259	3	55.6	5.2	C3-S2
T.3S., R.6E.																						
Sec. 31	Chandler Heights	"	"	8/63	605	84	67	I	83038	0.6	470	38	4	97	61	68	0	195	7	65.1	4.1	C2-S1
T.3S., R.8E.																						
Sec. 25	Queen Creek	"	L-4 Ranches	9/63	748	380	---	I	83689	0.9	595	52	10	123	151	63	0	195	1	61.0	4.0	C3-S1
T.3S., R.9E.																						
Sec. 31	Magma	"	H. L. Fulton	5/56	500	302	---	I	310-W	0.7	453	25	24	44	172	10	0	178	--	32.0	1.5	C2-S1
Sec. 31	"	"	F. L. Fulton	4/56	605	300	---	I	295-W	0.8	599	46	16	124	176	20	0	217	--	60.0	4.0	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X10³ at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.3S., R.22E.																						
Sec. 29	Bylas	Graham	John C. Walker	6/55	102	14	1	I	C5708	5.3	3711	450	90	717	1528	560	0	366	--	51.0	:::	:::
Sec. 29	"	"	"	6/55	100	19	2	I	C5709	4.9	3441	360	83	707	1336	560	0	395	--	55.4	8.8	C4-S3
T.4S., R.1E.																						
Sec. 15	Rainbow Valley	Maricopa	Tolby & Boulais	2/58	520	220	---	I	70130	1.6	1147	42	17	306	223	336	0	222	--	79.1	10.2	C3-S3
T.4S., R.2E.																						
Sec. 13	Maricopa	Pinal	Richard Brubaker	3/50	280	---	---	I	C1682	3.2	2230	60	19	652	518	998	0	486	15	86.3	18.6	C4-S4
Sec. 24	"	"	Brown Brothers	3/54	300	---	1	I	C4756	8.6	6019	450	188	1390	2240	1360	0	371	20	61.4	:::	:::
Sec. 24	"	"	"	3/54	500	---	2	I	C4757	5.5	3872	180	75	1046	1160	1040	0	342	--	75.0	:::	:::
Sec. 25	"	"	B. Burns	9/58	80-160	---	---	I-S	522-W	6.1	4138	37	22	1425	1507	952	0	195	--	94.0	:::	:::
Sec. 33	"	"	Savage Farms	3/58	600	350	Savage#1	I	70319	1.3	879	18	7	251	145	180	0	278	--	88.0	12.7	C3-S3
Sec. 33	"	"	"	3/58	600	350	Savage#2	I	70320	0.9	604	9	6	163	61	114	0	251	--	88.1	10.5	C3-S2
Sec. 33	"	"	"	3/58	600	350	Savage#3	I	70321	1.8	1291	56	27	327	294	328	0	259	--	73.9	9.1	C3-S2
Sec. 33	"	"	"	3/58	600	350	Savage#4	I	70322	0.9	653	13	4	179	63	135	0	256	--	88.8	11.0	C3-S2
Sec. 35	"	"	J. Frost	3/56	---	---	---	I	277-W	1.6	1455	55	42	377	430	300	0	251	--	73.0	9.4	C3-S2
T.4S., R.3E.																						
Sec. 5	"	"	Jack Crain	5/57	800	300	---	I	68451	0.8	573	44	9	116	74	130	0	200	--	63.1	4.3	C3-S1
Sec. 13	"	"	Smith & Enke	4/54	350	---	---	I	64034	0.8	548	68	4	106	150	100	0	120	--	55.2	3.4	C3-S1
Sec. 14	"	"	Bill Chatam	10/59	480	---	---	I	74392	1.3	821	88	19	153	205	225	0	117	14	52.8	3.9	C3-S1
Sec. 14	"	"	"	3/55	400	54	---	I	161-W	1.4	889	132	53	76	248	200	0	180	--	23.0	1.4	C3-S1
Sec. 15	"	"	Smith & Enke	4/54	350	---	4	I	64032	0.7	494	52	4	90	70	68	0	210	--	57.1	3.2	C2-S1
Sec. 20	Casa Grande	"	W. M. Hauser	7/50	300	---	---	I	C2044	0.7	492	30	11	98	46	80	0	220	7	64.0	3.8	C2-S1
Sec. 23	Maricopa	"	Bill Chatam	10/59	400	---	1	I	74391	1.3	900	107	24	144	195	230	0	181	19	46.1	3.5	C3-S1
Sec. 23	"	"	Continental Livestock Company	3/62	300-400	---	Porter#3	I	80079	1.9	1405	179	33	225	297	472	0	161	38	45.6	4.0	C3-S1
Sec. 24	"	"	Y. F. Ranches	2/56	600	220	4	I	70238	1.1	777	91	19	129	188	176	0	173	--	47.8	3.2	C3-S1
SE¼,SE¼ Sec. 24	"	"	Continental Livestock	3/62	1200	200	Porter#1	I	80077	1.6	1321	156	23	237	253	500	0	112	40	51.6	4.6	C3-S1
Sec. 24	"	"	"	3/62	300	200	Porter#2	I	80078	2.4	1950	255	49	300	372	765	0	171	38	43.7	4.5	C4-S2
Sec. 25	"	"	"	2/62	1692	200	Porter#7	I	80005	1.1	874	89	11	165	99	315	0	195	0	57.2	4.4	C3-S1
Sec. 25	"	"	Y. F. Ranches	2/58	600	220	1	I	70234	0.9	601	58	32	78	103	146	0	183	--	38.0	2.0	C3-S1
Sec. 25	"	"	"	2/58	600	220	2	I	70236	1.1	759	88	24	117	186	172	0	171	--	44.3	3.0	C3-S1
Sec. 34	"	"	R. B. Rust	1/52	396	---	---	I	C3171	3.2	2215	270	53	416	806	460	0	166	44	50.3	6.3	C4-S2
Sec. 34	"	"	John Wake	1/52	370	---	---	I	C3127	0.8	527	38	11	106	72	100	0	200	--	62.2	1.3	C3-S1
Sec. 35	"	"	Dunn Brothers	2/56	555	---	---	I	270-W	0.6	434	33	16	74	66	50	0	195	--	52.0	2.7	C2-S1
Sec. 36	"	"	Continental Livestock	2/62	1100	200	---	I	80003	2.0	1413	194	33	216	325	445	0	175	25	43.0	3.8	C3-S1
Sec. 36	"	"	"	2/62	1600	200	---	I	80004	0.9	643	56	12	128	95	188	0	151	13	59.4	4.2	C3-S1
Sec. 36	"	"	"	3/62	305	200	Porter#4	I-D	80080	1.8	1238	160	31	196	297	365	0	161	28	44.8	3.7	C3-S1
Sec. 36	"	"	Farmers' Investment Co.	11/61	1700	230	---	I	79197	0.9	657	37	2	178	134	216	0	90	0	79.6	7.8	C3-S2
T.4S., R.4E.																						
Sec. 1	Casa Blanca	"	San Carlos Irrigation	3/49	424	40	123	I	54465	1.1	733	68	11	114	170	166	0	204	--	53.5	3.3	C3-S1
Sec. 1	"	"	"	8/63	440	138	123	I	83036	1.4	946	96	13	196	253	203	0	181	4	59.2	5.0	C3-S1
Sec. 17	Maricopa	"	Ed Hooper	8/53	512	85	---	I	63122	0.9	644	52	4	146	108	168	0	166	--	68.4	5.5	C3-S1
Sec. 18	"	"	J. E. Smith	3/55	400	90	---	I	163-W	0.8	567	59	11	115	172	100	0	110	--	56.4	3.6	C3-S1
NE¼,NW¼ Sec. 18	"	"	Enke Ranches	4/60	900	---	North Home	I	75835	1.8	1213	156	29	198	312	330	0	164	24	45.6	3.8	C3-S1
NE¼,NW¼ Sec. 18	"	"	"	5/63	900	---	North Home	I	82376	1.8	1117	150	19	185	282	285	0	166	30	47.0	3.8	C3-S1
SE¼,SW¼ Sec. 18	"	"	"	4/60	900	---	South Home	I	75834	2.7	1905	254	55	286	454	660	0	154	42	41.9	4.3	C4-S2
SE¼,SW¼ Sec. 18	"	"	"	5/63	900	---	South Home	I	82377	2.6	1394	232	38	166	420	300	0	195	43	32.9	2.8	C4-S1
Sec. 19	"	"	"	5/63	---	---	Bartol West	I	82379	2.1	1446	190	40	225	359	465	0	142	25	43.5	3.9	C3-S1
SE¼,SW¼ Sec. 19	"	"	"	5/63	---	---	Brown Camp	I	82382	1.7	1150	150	16	208	269	313	0	161	33	50.6	4.4	C3-S1
NE¼,SE¼ Sec. 19	"	"	"	5/63	---	---	Brown North	I	82383	0.5	337	9	2	91	24	95	0	112	4	86.4	2.3	C2-S1
SW¼,SE¼ Sec. 19	"	"	"	5/63	---	---	Brown South	I	82384	1.0	564	52	9	113	94	174	0	112	10	59.5	3.7	C3-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.4S., R.4E.																						
Sec. 19	Maricopa	Pinal	Enke Ranches	5/63	---	---	Brown N.E.	I	82385	3.2	2281	334	65	310	526	800	0	151	95	38.1	4.1	C4-S2
SE¼,SW¼ Sec. 20	"	"	"	5/63	---	---	Bartol East	I	82378	3.2	1916	288	41	280	514	560	0	171	62	40.6	4.1	C4-S2
Sec. 21	"	"	Ed Hooper	8/53	720	180	---	I	63121	0.7	463	30	4	109	64	124	0	132	--	72.1	6.3	C2-S2
Sec. 22	"	"	"	8/53	615	180	---	I	63123	4.0	2767	240	8	660	474	1165	0	220	--	69.3	11.5	C4-S3
Sec. 27	"	"	M. A. Wadsworth	5/50	---	---	---	I	C1853	1.4	1005	75	15	225	186	270	0	234	--	65.2	6.2	C3-S2
Sec. 29	"	"	D. Hadley	4/55	890	175	East	I	181-W	1.6	956	179	39	214	310	500	0	144	--	43.3	3.8	C3-S1
Sec. 29	"	"	"	4/55	910	110	West	I	182-W	1.0	661	63	20	122	162	150	0	144	--	52.4	3.4	C3-S1
Sec. 31	"	"	Dave Hadley	5/53	320	---	---	I	C4211	1.9	1297	165	23	220	268	420	0	161	40	48.6	4.3	C3-S1
Sec. 32	"	"	Daley & Bogle Farms	6/61	---	---	156	I	766-W	0.5	329	17	3	79	36	82	0	112	--	75.8	4.4	C2-S1
T.4S., R.5E.																						
Sec. 10	Sweetwater	"	San Carlos Irrigation	3/49	376	45	51	I	-----	0.8	572	82	19	69	152	50	T	200	--	34.9	1.8	C3-S1
Sec. 10	"	"	"	8/63	376	75	51	I	83031	1.5	981	152	21	123	188	285	0	171	41	36.4	2.5	C3-S1
T.4S., R.6E.																						
Sec. 16	Sacaton	"	B. M. Waddle	3/54	---	---	---	I	C4767	5.3	3713	570	75	522	784	1400	0	283	79	39.6	:::	:::
Sec. 23	"	"	San Carlos Irrigation	3/49	176	34	47	I	-----	2.0	1430	165	19	292	448	260	14	232	--	56.4	5.8	C3-S2
Sec. 23	"	"	"	8/63	176	74	47	I	83030	1.1	760	82	15	138	176	155	0	186	8	53.0	3.7	C3-S1
T.4S., R.7E.																						
Sec. 22	Olberg	"	C. E. Williams	4/51	687	---	---	I	C2601	1.2	847	15	8	238	134	120	0	320	12	88.0	12.5	C3-S3
Sec. 28	"	"	San Carlos Irrigation	8/63	459	80	86	I	83035	1.1	726	23	0	226	220	130	0	127	0	89.4	13.0	C3-S3
T.4S., R.8E.																						
Sec. 12	Florence	"	C. A. Phillebaum	1/61	400	300	---	I	711-W	0.8	440	28	6	110	137	49	0	110	--	71.6	4.9	C3-S1
Sec. 36	"	"	Felix	8/54	980	83	---	I	30-W	0.7	543	67	15	93	180	65	0	127	--	46.0	6.6	C2-S2
T.4S., R.9E.																						
Sec. 24	"	"	Federal Prison Camp	6/62	---	235	---	I-D	80647	1.0	637	58	19	117	160	77	0	205	1	53.5	3.5	C3-S1
Sec. 24	"	"	"	6/62	---	235	---	I-D	80648	1.3	765	81	23	130	204	114	0	210	3	48.8	3.3	C3-S1
Sec. 26	"	"	San Carlos Irrigation	8/63	800	---	10	I	83027	2.0	1441	167	38	295	425	230	0	259	30	59.6	5.2	C3-S2
Sec. 27	Coolidge	"	C. W. England	4/62	500	160	1	I	801-W	1.7	1332	161	28	228	360	223	0	332	--	48.8	6.1	C3-S2
Sec. 27	"	"	"	3/62	600	136	2	I	797-W	1.6	1327	163	37	211	356	267	0	293	--	45.1	3.9	C3-S1
T.4S., R.10E.																						
Sec. 16	Florence	"	San Carlos Irrigation	3/49	181	88	12	I	-----	1.1	799	98	15	143	250	102	0	183	--	50.3	3.6	C3-S1
Sec. 16	"	"	"	8/63	477	125	12	I	83018	1.1	767	66	17	156	196	118	0	210	4	59.2	4.3	C3-S1
Sec. 28	"	"	"	3/49	212	111	1	I	54381	1.0	677	142	11	37	78	160	T	249	--	16.8	0.8	C3-S1
Sec. 28	"	"	"	8/63	600	---	1	I	83022	1.8	1357	147	35	237	314	335	0	259	30	50.2	4.5	C3-S1
T.4S., R.11E.																						
Sec. 7	"	"	"	3/49	---	---	6	I	-----	1.9	1348	75	23	345	397	218	0	290	--	72.6	8.8	C3-S2
Sec. 7	"	"	"	8/63	138	35	6	I	83019	1.6	1176	140	34	184	228	385	0	205	0	45.0	3.6	C3-S1
Sec. 8	"	"	"	3/49	Gila River Canal at Ashurst-Hayden Dam			I	47917	1.5	1019	92	21	213	274	179	10	230	--	59.3	5.4	C3-S2
Sec. 8	"	"	"	8/63	"			I	83020	1.7	1107	98	27	229	318	220	0	215	0	58.4	5.3	C3-S2
T.4S., R.14E.																						
Sec. 17	Kelvin	"	M. S. Wilkins	5/56	80	15	---	I	306-W	1.4	1520	139	32	322	330	380	0	317	--	62.0	4.9	C3-S1
T.4S., R.22E.																						
Sec. 35	Geronimo	Graham	J. Ward	9/60	100	40	---	I	673-W	0.6	377	38	5	67	54	50	0	163	--	56.0	2.7	C2-S1
T.4S., R.23E.																						
NE¼,SW¼ Sec. 11	Ft. Thomas	"	Tyler	8/55	50	12	---	I	66089	8.9	6212	365	149	1672	2800	750	0	476	--	70.4	:::	:::
SW¼,SW¼ Sec. 17	Geronimo	"	Rex Black	4/58	120	100	---	IDS	70590	7.1	4994	223	121	1369	1903	944	0	434	--	73.8	:::	:::
Sec. 18	"	"	Vonda Bieth	1/57	---	---	---	I-D	C7258	5.6	3908	158	49	1117	1120	840	58	566	--	80.3	:::	:::
Sec. 19	"	"	E. Montierth	6/53	90	40	---	I-D	62969	0.5	357	7	0	101	24	98	0	127	--	92.6	10.5	C2-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.4S., R.23E.																						
Sec. 20	Geronimo	Graham	Rex Black	11/50	70	45	---	IDS	59681	5.2	3606	142	34	1052	1256	550	0	571	--	82.0	:::	:::
Sec. 26	Ft. Thomas	"	Leo Hooper	2/59	---	---	---	I	539-W	4.8	3219	191	44	925	1263	430	0	366	0	75.0	:::	:::
Sec. 26	"	"	"	2/61	60	17	---	I	716-W	6.2	4077	228	67	1139	1705	674	0	264	0	74.6	:::	:::
Sec. 27	"	"	H. H. Uhli	2/52	60	27	---	I-S	63747	7.6	5326	390	15	1560	2680	306	0	371	--	76.5	:::	:::
SW¼,NE¼ Sec. 27	"	"	M. R. Bryce	7/57	120	110	Spring	I-D	68899	8.7	6090	516	126	1425	2430	1100	0	473	--	63.1	:::	:::
SW¼,NE¼ Sec. 27	"	"	"	7/57	130	100	---	I-D	68900	3.2	2209	97	42	198	1200	550	0	122	--	50.9	4.3	C4-S2
Sec. 29	"	"	T. P. Motes	2/58	69	40	---	I	69929	9.5	6680	640	206	1366	2429	1580	0	459	--	54.8	:::	:::
Sec. 29	"	"	"	2/58	42	20	---	I	69930	13.5	9427	621	239	2314	2305	2400	0	547	--	66.5	:::	:::
Sec. 29	"	"	"	2/58	67	30	---	I	69931	12.8	8953	755	232	2042	3452	1940	0	532	--	60.9	:::	:::
Sec. 29	"	"	"	2/58	---	---	---	I	69932	12.5	8745	781	219	1964	3404	1840	0	537	--	63.2	:::	:::
Sec. 33	"	"	Otto Holyoak	1/62	102	80	1	IDS	79594	0.3	339	45	13	29	16	58	0	176	1	27.6	1.0	C2-S1
Sec. 33	"	"	"	1/62	105	78	2	IDS	79605	0.4	323	50	13	20	16	68	0	151	4	19.8	0.6	C2-S1
Sec. 34	"	"	L. B. Curtis	4/54	15	15	---	I	64175	10.1	7068	668	11	1861	3668	370	0	490	--	70.2	:::	:::
Sec. 34	"	"	"	4/54	15	15	---	I	64176	10.3	7217	480	15	2187	3658	455	0	422	--	79.0	:::	:::
Sec. 35	"	"	Darvin Weddle	6/59	150	50	---	I-D	73385	3.3	2327	165	119	406	300	1200	0	137	--	49.4	5.8	C4-S2
Sec. 35	"	"	A. B. Claridge	7/55	45	23	---	IDS	66034	12.9	9012	516	90	2622	3900	1250	0	634	--	77.4	:::	:::
Sec. 35	"	"	V. Sanders	2/61	59	8	---	I	715-W	6.4	3988	146	40	1256	1800	488	0	258	--	83.8	:::	:::
T.5S., R.2E.																						
Sec. 2	Maricopa	Pinal	Herman Diwan	7/62	5851	---	---	I-D	80783	3.0	1993	100	50	504	590	500	0	220	25	70.6	10.2	C4-S3
Sec. 2	"	"	W. F. Dunn	8/60	600	---	---	I	678-W	1.3	859	29	10	231	158	158	5	268	--	81.6	9.1	C3-S2
Sec. 13	Hidden Valley	"	Papago Butte Ranch	9/51	700	---	---	I	C2956	1.2	838	23	8	236	160	150	5	244	12	84.4	11.0	C3-S2
Sec. 14	Mobile	"	"	9/51	---	---	---	I	C2966	1.2	841	23	8	239	164	150	0	254	13	85.1	11.1	C3-S2
Sec. 14	"	"	H. L. Pickert	4/51	685	---	---	I-D	C2555	1.3	895	23	15	244	176	180	0	244	13	81.6	9.9	C3-S2
Sec. 17	Hidden Valley	"	O. H. Hines	2/56	600	---	---	I	271-W	1.2	1074	68	7	278	250	300	0	171	--	75.0	8.6	C3-S2
Sec. 17	"	"	"	1/55	350	---	---	I	115-W	1.3	815	75	0	204	240	140	0	176	--	70.0	7.4	C3-S2
Sec. 17	"	"	Dr. J. R. Carney	2/59	600	345	---	I	72482	1.4	949	64	8	236	214	250	0	166	11	73.0	7.5	C3-S2
Sec. 18	Stanfield	"	Albert Canwell	6/50	---	---	---	I-D	C1915	0.8	573	8	4	160	68	60	0	266	--	84.9	11.1	C3-S2
Sec. 21	Hidden Valley	"	Hawkins	3/50	---	---	---	I	C1676	1.8	1280	113	15	283	292	320	0	198	59	64.2	6.8	C3-S2
Sec. 21	"	"	Fred Enke	8/59	---	---	H.V. West	I	73835	1.8	1190	79	7	311	294	340	2	142	15	75.0	9.0	C3-S2
Sec. 21	"	"	"	5/63	---	---	H.V. West	I	82381	1.9	962	86	7	207	133	335	0	176	18	64.7	5.6	C3-S2
Sec. 22	"	"	"	8/59	---	---	H.V. East	I	73839	1.7	1137	72	12	289	271	310	2	159	22	73.0	8.0	C3-S2
Sec. 22	"	"	"	5/63	---	---	H.V. East	I	82380	2.3	1348	93	32	313	351	410	0	122	27	65.2	7.1	C4-S2
Sec. 27	"	"	"	8/59	---	---	H.V. South	I	73838	3.2	2248	220	107	372	583	850	0	78	38	45.0	5.2	C4-S2
Sec. 27	"	"	Hawkins	3/50	---	---	---	I	C1677	1.3	920	45	8	244	168	280	0	163	12	78.5	8.5	C3-S2
Sec. 35	"	"	Dr. J. R. Carney	2/59	700	345	---	I	72479	1.3	876	35	3	258	230	220	0	117	13	85.0	11.2	C3-S3
Sec. 35	"	"	W. R. Johnson	6/60	600	450	---	I-D	76357	1.5	1068	54	18	273	240	305	0	168	10	74.0	8.4	C3-S2
Sec. 36	Maricopa	"	S. F. Joebgen	4/59	600	500	---	I	73058	1.4	979	42	13	262	226	230	0	181	25	79.0	9.0	C3-S2
Sec. 36	"	"	"	4/59	600	500	---	I	73059	1.3	901	35	11	246	208	210	0	181	10	80.0	9.4	C3-S2
Sec. 36	"	"	"	4/59	1061	470	---	I	73060	1.1	801	30	10	212	154	160	0	224	11	80.0	8.6	C3-S2
T.5S., R.3E.																						
Sec. 1	"	"	Dunn Brothers	4/60	---	---	---	I	633-W	1.8	991	146	26	138	260	265	0	156	--	38.8	2.7	C3-S1
Sec. 3	"	"	Edward Farrell	7/54	180	80	---	I	11-W	0.7	416	68	4	59	70	77	0	159	--	40.7	7.4	C2-S2
Sec. 3	"	"	"	6/61	375	140	---	I	78431	0.8	532	62	13	79	79	113	0	168	18	45.1	2.4	C3-S1
Sec. 16	"	"	Eddie Pratt	1/61	200	150	---	I	710-W	0.7	457	46	15	69	69	80	0	178	--	45.8	2.8	C2-S1
Sec. 16	"	"	"	1/63	---	---	---	IDS	81824	0.6	444	40	13	72	51	85	0	176	7	50.7	2.5	C2-S1
Sec. 25	"	"	Odell Dees	3/59	700	400	---	I	72745	0.7	486	54	10	74	61	70	0	204	13	48.0	2.5	C2-S1
Sec. 30	Stanfield	"	Hi T Ranch Corp.	2/51	728	175	---	I	C2452	0.9	606	30	8	150	96	70	14	229	--	75.1	6.5	C3-S2
Sec. 30	"	"	W. A. Sullivan	8/56	250	---	---	I	354-W	0.7	700	19	10	173	134	100	0	264	--	80.9	6.5	C2-S2
Sec. 30	"	"	"	8/56	250	---	---	I	355-W	0.8	826	25	13	221	180	150	0	237	--	80.5	8.8	C3-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC x 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.5S., R.4E.																						
Sec. 3	Maricopa	Pinal	Cecil Crouch	5/61	700	---	---	I	78203	1.0	620	39	23	122	119	147	0	166	4	58.0	3.9	C3-S1
Sec. 3	"	"	J. E. Deeren	7/50	405	---	---	I	C2056	0.9	599	38	8	137	84	140	0	188	4	70.0	5.3	C3-S1
Sec. 3	"	"	L. J. Russel	7/56	260	---	---	I	333-W	0.7	487	28	11	104	50	111	7	176	--	66.0	5.3	C2-S1
Sec. 3	"	"	"	7/56	260	---	---	I	332-W	0.7	452	36	10	99	40	94	0	183	--	62.0	3.7	C2-S1
Sec. 4	"	"	Continental Livestock Company	2/62	1200	200	---	I	80001	1.3	919	95	15	180	190	238	0	151	50	56.7	4.5	C3-S1
Sec. 4	"	"	"	2/62	1200	200	Verdant#2	I	80002	0.9	646	51	9	138	95	165	0	166	22	64.6	4.6	C3-S1
Sec. 6	Stanfield	"	Fred Graff	6/61	---	---	172	I	768-W	1.2	813	119	14	119	170	245	0	146	--	42.2	2.8	C3-S1
Sec. 9	"	"	Kortsen Brothers	3/51	500	200	---	I-D	C2553	0.6	437	38	8	78	46	50	0	193	24	57.0	3.0	C2-S1
Sec. 11	"	"	W. J. Crouch Ranch	6/55	---	---	---	I	221-W	1.8	1232	11	10	386	210	420	12	183	--	93.0	21.0	C3-S4
Sec. 14	Maricopa	"	Cecil Crouch	5/61	440	---	2	I	78198	1.0	638	36	7	155	109	150	0	178	3	74.0	6.0	C3-S2
Sec. 14	"	"	"	5/61	450	---	5	I	78199	1.4	1227	105	28	253	270	368	0	200	3	59.3	5.7	C3-S2
Sec. 14	"	"	"	5/61	450	---	7	I	78201	0.8	522	21	7	135	95	129	0	129	6	78.4	6.5	C3-S2
Sec. 14	"	"	"	5/61	750	---	8	I	78202	0.9	551	26	6	141	103	133	0	137	5	77.4	6.6	C3-S2
Sec. 15	Stanfield	"	Dan Norton	7/51	---	---	---	I	C2840	0.7	513	30	8	116	70	100	0	185	4	70.0	4.6	C2-S1
Sec. 15	Maricopa	"	Nazur Knight	4/55	365	---	---	I	C5854	0.8	565	39	9	117	80	130	0	181	--	65.5	4.5	C3-S1
Sec. 22	Bon	"	Carl Brim	3/54	---	---	2	I	64035	1.0	700	112	4	104	166	134	0	180	T	43.1	2.6	C3-S1
Sec. 23	Casa Grande	"	W. J. Crouch Ranch	6/55	---	---	---	I	218-W	0.8	548	23	4	145	80	125	0	171	--	82.0	7.2	C3-S2
Sec. 25	"	"	F. & F. Mogle	3/55	700	190	---	I	150-W	0.7	469	53	19	53	59	95	0	190	--	35.4	1.3	C2-S1
Sec. 27	"	"	Unknown	7/51	500	110	---	IDS	C2861	2.0	1363	225	34	159	332	330	0	168	--	33.0	2.6	C3-S1
Sec. 31	"	"	J. Self & Sons	4/51	400	150	---	I	C2624	0.6	440	38	8	80	40	80	0	185	9	57.6	3.1	C2-S1
Sec. 31	Bon	"	L. G. Storey	1/62	450	250	---	I	79895	0.6	282	17	12	51	40	57	0	100	5	54.7	2.4	C2-S1
Sec. 35	"	"	W. R. Sikes	4/50	435	70	---	I	58747	4.2	2941	578	0	428	956	805	0	173	--	39.2	4.9	C4-S2
Sec. 35	"	"	Rufus Sikes	2/55	435	140	---	I	65323	1.8	1229	238	55	83	362	320	0	171	--	17.9	1.4	C3-S1
Sec. 35	"	"	"	4/60	880	330	---	I	75891	1.0	671	58	12	135	130	150	0	168	17	60.2	4.2	C3-S1
T.5S., R.5E.																						
Sec. 31	Casa Grande	"	Thomas Barker	9/59	500	---	2	I	612-W	1.4	979	37	10	259	152	257	0	264	0	80.8	9.3	C3-S2
Sec. 31	"	"	"	9/59	600	---	3	I	613-W	0.9	601	14	5	169	84	158	0	171	0	86.9	9.9	C3-S2
Sec. 31	"	"	"	9/59	600	---	4	I	614-W	1.0	584	17	7	159	96	122	0	176	0	82.7	8.0	C3-S2
T.5S., R.6E.																						
Sec. 7	"	"	Producers Cotton Oil Co.	3/53	---	---	---	I	C4055	4.2	2950	263	45	650	660	1020	0	312	--	62.6	9.8	C4-S3
Sec. 8	"	"	"	3/53	---	---	---	I	C4056	5.2	3653	263	49	888	816	1300	0	337	--	69.4	:::	:::
Sec. 17	"	"	"	3/53	---	---	---	I	C4053	4.7	3283	240	38	800	744	1080	0	381	--	69.8	12.5	C4-S4
Sec. 18	"	"	"	3/53	---	---	---	I	C4054	4.6	3190	255	38	753	712	1100	0	332	--	68.2	11.8	C4-S4
Sec. 20	"	"	"	3/53	---	---	---	I	C4052	4.2	2947	225	30	710	640	1000	0	342	--	69.3	11.5	C4-S3
Sec. 24	"	"	A. M. McFaddin	6/54	930	60	---	I	64343	5.4	3764	405	11	826	906	1096	0	520	--	62.9	:::	:::
NE¼ Sec. 25	"	"	Yost & Gardner	6/57	---	---	---	---	68792	0.5	356	13	T	108	92	70	0	73	--	87.8	8.0	C2-S2
Sec. 26	"	"	Walter Averill	2/59	---	---	---	I-D	72481	0.5	371	11	0	121	69	100	0	68	--	90.5	10.5	C2-S2
Sec. 27	"	"	Gable Robles	4/59	700	300	---	I-D	73151	0.6	433	5	1	125	30	100	0	169	3	94.3	13.0	C2-S3
Sec. 27	"	"	Dr. H. L. Shaw	1/58	508	210	---	I	69960	0.7	517	6	1	156	53	124	T	176	--	94.6	15.0	C2-S3
Sec. 27	"	"	Shaw & Guernesey	5/60	---	---	---	---	635-W	0.7	423	4	4	120	28	110	6	151	--	90.6	10.2	C2-S2
Sec. 28	"	"	Southwest Engineers	8/56	285	---	---	I	345-W	0.6	438	6	3	127	50	130	0	122	--	90.0	10.2	C2-S2
Sec. 28	"	"	"	8/56	285	---	---	I	346-W	0.7	476	10	3	136	72	150	0	105	--	88.0	9.5	C2-S2
Sec. 33	"	"	"	8/56	285	---	---	I	347-W	0.8	583	8	2	177	68	230	0	98	--	93.0	13.5	C3-S3
Sec. 33	"	"	"	8/56	285	---	---	I	348-W	0.6	413	6	2	122	58	125	0	100	--	96.3	11.0	C2-S2
T.5S., R.7E.																						
Sec. 1	"	"	Kennedy & Kennedy	1/58	608	275	1	I	69789	2.2	1572	373	25	94	488	348	0	244	--	16.4	1.3	C3-S1
Sec. 13	"	"	J. Roberts	10/56	1100	125	---	I	370-W	0.9	639	13	8	191	160	170	T	98	--	86.0	10.6	C3-S2
Sec. 20	"	"	C. S. McFarland	12/54	---	---	---	I	94-W	1.5	1076	173	15	163	360	165	0	200	--	42.0	3.2	C3-S1
Sec. 22	"	"	San Carlos Irrigation	8/63	386	151	52	I	83032	1.8	1323	187	22	217	359	365	0	161	12	45.8	3.9	C3-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.5S., R.7E.																						
Sec. 23	Coolidge	Pinal	E. Nabors	4/56	400	120	---	I	283-W	0.5	364	19	15	60	26	T	0	244	--	54.4	2.4	C2-S1
Sec. 24	"	"	"	3/56	375	113	---	I	279-W	1.0	667	74	14	90	62	0	0	427	--	44.5	2.5	C3-S1
Sec. 24	"	"	E. Wildenmuth	2/57	300	---	---	I	379-W	7.3	5142	622	122	966	1600	1600	0	232	--	50.5	:::	:::
Sec. 24	"	"	M & W Farm	9/58	300	135	---	I	520-W	2.8	1939	261	37	338	597	550	0	156	--	48.0	5.2	C4-S2
Sec. 24	"	"	D. W. Hall	4/53	210	---	---	I-D	C4105	4.9	3430	540	60	546	1220	800	0	244	20	41.8	5.8	C4-S2
Sec. 24	"	"	Andy Wilkins	2/58	394	160	---	I	69959	3.9	2759	316	69	501	856	648	0	368	--	50.3	6.8	C4-S2
Sec. 25	"	"	M & W Farms	9/58	450	138	---	I	518-W	2.5	1729	152	25	393	443	560	0	156	--	64.0	7.8	C4-S2
Sec. 25	"	"	"	9/58	400	135	---	I	519-W	1.3	888	113	16	151	219	240	0	149	--	48.0	3.5	C3-S1
Sec. 25	"	"	J. Lamb	2/61	352	190	1	I	713-W	2.6	1878	309	49	232	477	645	0	166	--	38.4	3.3	C4-S1
Sec. 25	"	"	Hall	8/52	---	---	---	I	C3605	4.5	3130	450	75	520	1140	760	0	171	14	43.1	6.0	C4-S2
Sec. 26	"	"	J. Lamb	2/61	300	190	2	I	712-W	5.0	4300	782	102	469	1035	1663	0	249	--	30.0	:::	:::
Sec. 28	Casa Grande	"	J. E. Woodruff	3/60	---	---	---	I	75816	0.8	622	51	12	130	82	195	0	136	16	61.0	4.3	C3-S1
Sec. 31	"	"	Kennedy & Kennedy	1/58	650	270	2	I	69790	2.0	1427	271	18	170	421	396	0	151	--	32.9	2.8	C3-S1
Sec. 33	Coolidge	"	J. C. Woodruff	6/51	300	90	---	IDS	C2826	1.0	690	60	15	147	194	130	2	137	5	60.5	7.3	C3-S2
Sec. 33	"	"	H. L. Lamb	6/51	265	80	---	IDS	C2798	0.5	345	38	19	34	38	60	0	156	4	30.0	1.2	C2-S1
Sec. 33	"	"	J. E. Woodruff	6/58	400	80	---	I	495-W	0.6	441	52	6	71	70	100	0	142	--	50.0	2.5	C2-S1
Sec. 33	Casa Grande	"	"	3/60	---	---	HR#2	I-D	75817	0.7	524	45	5	108	70	170	2	120	5	65.0	4.1	C2-S1
Sec. 34	"	"	"	5/58	380	130	---	I	496-W	0.6	419	47	7	76	86	105	0	98	--	53.0	2.7	C2-S1
Sec. 34	"	"	"	3/60	---	240	4	I	75819	0.7	508	28	3	129	70	135	2	134	7	77.2	6.2	C2-S1
Sec. 36	"	"	C. M. Kennedy	4/56	223	---	---	I	287-W	2.4	1706	309	39	190	480	450	0	238	--	31.0	2.8	C4-S1
T.5S., R.8E.																						
NW¼,NW¼ Sec. 1	Coolidge	"	San Carlos Irrigation	8/63	230	---	13	I	83029	3.6	2599	366	81	388	914	500	0	317	35	40.3	4.7	C4-S2
Sec. 5	"	"	Skowsen	5/56	220	92	---	I	311-W	1.5	1024	155	39	120	312	134	0	264	--	33.0	2.3	C3-S1
Sec. 7	"	"	San Carlos Irrigation	8/63	645	131	33	I	83037	1.5	976	83	15	217	277	168	0	210	6	63.7	5.7	C3-S2
Sec. 10	"	"	"	8/63	796	---	50	I-D	83024	1.6	1034	95	19	227	290	195	0	200	8	59.7	5.3	C3-S2
Sec. 17	"	"	"	1/55	921	114	---	I	263-W	1.2	839	67	36	154	270	80	0	232	--	52.0	3.8	C3-S1
Sec. 19	"	"	Mrs. J. Boree	9/51	300	100	---	IDS	61192	8.4	5908	975	60	967	2030	1620	0	256	10	43.9	:::	:::
Sec. 19	"	"	LaPaglia Brothers	7/61	406	141	---	I	773-W	6.4	4447	619	109	740	1510	1225	0	244	--	44.7	:::	:::
Sec. 19	"	"	Evan Smith	1/61	---	70	---	I	705-W	5.0	3367	495	87	528	1156	950	0	151	--	41.8	5.7	C4-S2
Sec. 19	"	"	"	4/57	400	156	---	I	412-W	2.6	1775	210	90	283	730	360	0	122	--	38.0	4.2	C4-S2
Sec. 19	"	"	Henry L. Polk	4/52	200	89	---	I	C3362	7.0	4875	720	90	806	1560	1440	0	258	--	44.9	:::	:::
Sec. 20	"	"	S. C. McFarland	12/55	1000	---	---	I	262-W	1.3	895	55	9	237	280	180	0	134	--	75.0	7.8	C3-S2
Sec. 20	"	"	"	9/55	---	---	---	I	236-W	2.8	1940	139	41	428	410	640	0	249	--	64.0	8.2	C4-S2
Sec. 20	"	"	"	9/55	---	---	---	I	237-W	3.3	2329	275	139	242	420	990	0	329	--	30.0	3.0	C4-S2
Sec. 20	"	"	"	9/55	1200	---	---	I	238-W	2.4	1672	296	23	228	480	560	0	85	--	38.0	3.5	C4-S2
Sec. 21	"	"	Woodman Moore	3/60	1485	200	---	I-D	75714	1.2	692	26	4	210	204	151	0	90	7	84.7	10.5	C3-S2
Sec. 21	"	"	J. C. Carter	7/51	---	---	---	IDS	C2860	4.0	2766	405	53	436	758	840	0	244	30	43.5	5.5	C4-S2
Sec. 21	"	"	F. P. Jamison	10/56	700	177	---	I	364-W	1.2	868	76	21	182	262	132	0	195	--	59.0	4.8	C3-S1
Sec. 23	"	"	San Carlos Irrigation	3/49	228	99	23	I	-----	3.0	2098	292	15	382	565	600	0	244	--	51.2	5.9	C4-S2
Sec. 23	"	"	"	8/63	800	137	23	I	83023	2.1	1445	156	29	265	314	385	0	273	23	53.0	5.1	C3-S2
Sec. 26	"	"	A. L. Bartlett	10/53	235	---	---	I-D	C4525	3.4	2377	345	60	342	592	720	0	268	50	40.1	4.3	C4-S2
Sec. 28	"	"	A. G. Hupfel	1/52	---	---	---	I-D	61491	5.8	4050	727	60	586	1560	915	0	202	--	38.1	:::	:::
Sec. 30	"	"	J. LaPaglia	5/59	400	141	---	I	73355	6.3	4433	486	119	874	1520	1300	0	134	--	52.7	:::	:::
Sec. 30	"	"	"	5/59	400	141	---	I	73356	6.1	4234	474	139	793	1500	1250	0	78	--	49.5	:::	:::
Sec. 30	"	"	B. & W. Farms	2/59	580	150	North	I-S	559-W	4.4	2829	465	99	344	960	800	0	161	--	32.0	3.8	C4-S2
Sec. 30	"	"	"	2/59	412	180	3	I-S	547-W	1.3	782	89	14	151	234	170	0	124	--	54.0	3.8	C3-S1
Sec. 30	"	"	"	2/59	300	180	2	I-S	546-W	2.7	1730	261	65	217	539	450	0	198	--	34.0	3.1	C4-S1
Sec. 31	"	"	W. H. Wuertz	5/62	440	180	---	I	80475	3.1	2236	388	63	242	582	662	0	254	45	30.0	3.0	C4-S1
Sec. 31	"	"	"	5/62	440	180	---	I	80476	2.6	1771	326	31	208	519	475	0	181	31	32.4	3.0	C4-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.5S., R.8E.																						
Sec. 31	Coolidge	Pinal	F. Wuertz	2/59	500	130	North	I	542-W	2.9	1856	298	47	253	593	480	0	185	--	37.6	3.7	C4-S1
Sec. 31	"	"	"	2/59	345	105	South	I	543-W	2.9	1882	293	52	259	593	500	0	185	--	37.4	3.7	C4-S2
Sec. 34	"	"	A. L. Bartlett	11/50	210	---	---	---	C2324	5.4	3777	510	90	612	1010	1200	0	327	28	53.8	:::	:::
Sec. 34	"	"	"	11/50	295	---	---	---	C2325	2.3	1630	240	53	220	502	350	0	249	16	36.9	3.4	C4-S1
Sec. 34	"	"	Carl McFarland	7/57	---	---	---	---	68903	3.1	2199	256	47	435	790	500	0	171	--	53.4	6.5	C4-S2
Sec. 34	"	"	"	7/57	---	---	---	---	68904	4.0	2831	258	38	656	800	935	0	144	--	63.8	10.0	C4-S2
Sec. 34	"	"	"	7/57	---	---	---	---	68905	5.4	3761	484	31	774	1510	840	0	122	--	55.7	9.0	:::
Sec. 34	"	"	"	7/57	---	---	---	---	68906	4.0	2815	484	31	821	1500	850	0	129	--	57.1	:::	:::
Sec. 35	"	"	R. C. Nowell	9/51	---	---	---	I	61194	1.4	942	143	8	151	228	236	0	176	--	45.6	3.3	C3-S1
Sec. 36	"	"	C. B. Shiflet	5/52	---	---	---	I	61998	2.4	1673	308	15	205	362	539	0	244	4	34.8	3.1	C4-S1
T.5S., R.9E.																						
Sec. 1	Florence	"	Arizona State Prison	9/60	350	200	---	I	77076	0.3	234	12	3	51	18	23	0	127	0	72.1	3.5	C2-S1
Sec. 4	"	"	Cleman's Cattle Co.	11/58	325	60	5	I-S	530-W	1.4	975	115	27	168	317	140	0	208	14	48.0	3.7	C3-S1
Sec. 5	Coolidge	"	"	10/58	400	70	4	I-S	529-W	1.5	1029	115	29	181	325	140	0	239	12	49.0	3.8	C3-S1
Sec. 7	"	"	"	10/58	260	30	3	I-S	527-W	2.1	1486	165	42	256	417	240	0	366	18	49.0	4.6	C3-S2
Sec. 9	"	"	"	10/58	420	78	1	I-S	528-W	1.4	965	117	25	163	296	150	0	214	11	47.4	3.5	C3-S1
Sec. 9	"	"	W. R. Urton	3/51	400	140	---	I	C2554	1.2	834	90	23	147	240	100	0	222	12	50.0	3.6	C3-S1
Sec. 12	"	"	San Carlos Irrigation	8/63	316	---	110	I	83039	1.0	736	65	12	168	180	110	0	200	1	68.6	5.7	C3-S1
Sec. 25	"	"	"	3/49	216	111	25	I	-----	3.0	2075	210	23	444	460	728	T	210	--	60.9	7.8	C4-S2
Sec. 25	"	"	"	8/63	760	173	25	I	83016	0.8	559	42	2	138	147	80	0	146	4	72.6	5.7	C3-S1
Sec. 30	"	"	"	3/49	350	112	17	I	-----	0.6	412	45	4	67	66	45	7	178	--	53.0	2.5	C2-S1
Sec. 30	"	"	"	8/63	800	176	17	I	83026	1.0	661	45	5	163	155	135	0	146	12	72.6	6.1	C3-S2
T.5S., R.15E.																						
Sec. 22	Winkelman	"	Mike Bennett	3/55	140	45	---	I	65668	3.1	2154	409	69	209	764	400	0	303	--	25.8	2.5	C4-S1
Sec. 22	"	"	"	3/55	Gila River			I	65670	1.1	798	65	21	156	144	200	0	212	--	57.6	4.1	C3-S1
T.5S., R.16E.																						
Sec. 30	"	"	S. R. Junge	12/60	70	36	---	I-D	77311	6.5	5006	450	235	851	1124	1950	0	396	22	47.0	:::	:::
T.5S., R.23E.																						
Sec. 2	Ft. Thomas	Graham	W. O. Tyler	8/51	45	6	3	I	61102	12.7	8874	900	120	2097	3740	1480	0	537	--	62.4	:::	:::
Sec. 2	"	"	"	8/51	---	---	2	I-D	61103	8.5	5980	630	30	1455	2420	1040	0	405	--	65.0	:::	:::
Sec. 2	"	"	W. C. Rhodes	6/50	---	---	---	IDS	59034	1.5	1044	158	8	177	300	250	0	151	--	47.3	3.6	C3-S1
Sec. 2	"	"	"	1/50	56	48	---	I	56286	1.1	763	98	4	150	222	155	0	134	--	55.4	4.0	C3-S1
Sec. 10	"	"	"	8/60	75	60	---	IDS	674-W	0.3	219	32	5	21	8	38	0	115	--	30.6	0.8	C2-S1
Sec. 10	Geronimo	"	Lyman Holyoak	7/60	95	46	---	I-D	664-W	0.4	289	43	9	23	10	60	0	144	--	37.0	0.8	C2-S1
Sec. 10	Ft. Thomas	"	Raymond Turney	7/60	70	55	---	IDS	657-W	0.4	228	34	8	22	10	44	0	110	--	29.0	0.8	C2-S1
Sec. 11	"	"	C. J. Grover	12/60	70	50	---	IDS	700-W	0.3	204	28	8	16	6	41	0	105	--	25.1	0.7	C2-S1
Sec. 12	"	"	Freeland Moody	6/54	50	20	---	I	64338	6.9	4811	450	30	975	2258	600	0	498	--	62.9	:::	:::
Sec. 12	"	"	Dave Hawkins	6/52	46	22	---	I-D	62081	4.0	2762	218	19	700	856	562	0	407	--	70.9	12.0	C4-S4
Sec. 12	"	"	Grace Moody	6/51	35	15	---	IDS	60957	6.6	4650	705	15	886	1800	754	0	490	--	51.3	:::	:::
Sec. 12	"	"	George Mattice	6/51	47	30	---	I-S	60946	13.0	9073	855	30	2339	3584	1650	0	615	--	69.2	:::	:::
Sec. 13	Ashurst	"	W. H. VanOrder	7/57	71	35	---	I	68901	11.7	8167	560	197	2138	3940	810	0	522	--	67.7	:::	:::
Sec. 13	"	"	"	9/55	68	27	---	I-D	66192	13.3	9304	448	244	2544	3920	1575	0	573	--	72.2	:::	:::
Sec. 13	"	"	"	9/55	68	27	---	I-D	66193	13.4	9365	475	188	2634	3920	1575	0	573	--	74.4	:::	:::
Sec. 13	Ft. Thomas	"	B. Hawkins Est.	7/60	70	50	---	I	659-W	13.5	8512	635	19	2421	3760	1150	0	527	--	76.0	:::	:::
Sec. 23	Ashurst	"	Ed Moody	3/60	120	80	---	IDS	75880	10.2	7330	347	119	2081	2820	1338	0	561	64	76.9	:::	:::
Sec. 24	"	"	A. Mulleneaux	9/60	70	50	---	I-S	660-W	11.4	5609	544	20	274	3100	1188	0	483	--	76.0	:::	:::
Sec. 24	"	"	Ed Moody	10/54	60	60	---	I-S	64900	8.6	6050	490	78	1633	3176	180	0	493	--	69.6	:::	:::
Sec. 24	"	"	"	10/54	28	28	---	I-S	64899	6.1	4268	22	18	1518	1896	180	36	598	--	96.2	:::	:::

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.5S., R.23E.																						
Sec. 24	Ashurst	Graham	D. A. Bryce	7/51	47	46	---	I-S	61000	8.5	5980	60	4	1917	1092	1500	67	1340	--	96.1	:::	:::
Sec. 25	"	"	M. P. Bryce	7/54	120	100	---	I	64582	11.2	7833	585	34	2148	2932	1626	0	508	--	74.5	:::	:::
Sec. 25	"	"	Charles Rhodes	2/63	100	---	---	IDS	81832	0.5	348	58	11	24	36	55	0	151	13	21.5	0.7	C2-S1
Sec. 25	Eden	"	Bob Colvin	10/62	40	5	---	IDS	81130	6.0	4313	272	104	1062	1485	870	0	513	8	67.6	:::	:::
Sec. 25	"	"	"	7/62	115	80	---	IDS	80716	3.4	2245	162	49	519	675	445	0	380	13	65.0	9.2	C4-S3
Sec. 25	"	"	"	8/62	200	150	Spring	I-D	80717	0.5	343	33	17	35	16	36	0	185	21	33.4	1.3	C2-S1
Sec. 25	Ashurst	"	Ed Moody	3/61	87	60	---	I-S	730-W	8.5	5288	249	93	1500	2080	925	12	429	--	76.5	:::	:::
Sec. 25	"	"	"	3/61	92	58	---	I-S	731-W	10.0	6721	358	123	1865	2764	1075	0	536	--	74.3	:::	:::
Sec. 25	Eden	"	Bob Colvin	5/63	River			I	82335	2.7	1846	120	34	446	547	305	0	386	8	68.8	9.2	C4-S3
T.5S., R.24E.																						
Sec. 8	Hot Springs	"	C. McEven	3/60	70	42	---	I	619-W	8.0	5901	306	108	1600	1948	1588	0	351	--	74.2	:::	:::
Sec. 8	"	"	"	3/60	70	42	---	I	620-W	8.0	5611	296	102	1523	1900	1463	0	327	--	74.2	:::	:::
Sec. 17	Eden	"	Merrit Archibald	3/61	---	---	Spring	I-S	735-W	4.3	2559	81	10	857	1190	345	5	71	--	88.6	:::	:::
Sec. 17	"	"	"	4/61	Indian Hot Springs			IDS	77717	5.0	2928	81	10	995	1377	370	0	95	--	90.0	:::	:::
Sec. 27	"	"	Bob Colvin	11/59	---	---	---	I-D	74523	7.5	5462	394	166	1257	1970	1130	0	517	28	62.2	:::	:::
Sec. 29	"	"	Len Mattice	5/60	41	4	---	I	646-W	5.0	3813	230	64	974	1172	787	0	586	--	71.7	:::	:::
Sec. 30	"	"	W. L. Bellman	6/61	2600	---	---	I	772-W	30.0	18615	123	120	6603	8078	3325	0	366	--	94.8	:::	:::
Sec. 31	Cork	"	S. V. Cluff	11/59	80	---	---	I	74522	8.1	4984	293	121	1520	2312	795	0	527	16	72.8	:::	:::
Sec. 31	"	"	L. F. Brimhall	6/51	90	---	---	---	C2803	6.6	4648	225	68	1303	1670	760	0	622	28	56.6	:::	:::
Sec. 31	"	"	Sam Shirley	8/60	80	24	---	I-D	669-W	3.8	2450	214	159	365	820	433	0	459	--	40.0	4.5	C4-S2
Sec. 31	"	"	"	8/60	80	24	---	I-D	671-W	4.9	3222	212	73	800	1195	488	0	454	--	67.7	12.0	C4-S4
Sec. 31	"	"	E. Palmer	3/60	80	65	West	I	616-W	8.0	5763	304	123	1554	2224	1050	0	508	--	72.8	:::	:::
Sec. 33	Eden	"	A. Carpenter	3/59	60	54	---	I	72760	3.1	2201	50	18	668	602	430	4	429	4	88.0	20.0	C4-S4
T.5S., R.25E.																						
Sec. 7	"	"	Neil McRae	1/55	125	80	---	I	65306	4.4	3044	71	28	943	1102	175	T	725	--	87.4	:::	:::
Sec. 7	"	"	"	1/55	125	80	---	I	65305	5.3	3711	89	66	1127	1520	160	T	749	--	83.3	:::	:::
Sec. 8	Bryce	"	A. J. Bryce	7/54	60	50	---	I	64613	4.7	3260	90	4	1053	1040	790	0	283	--	90.4	:::	:::
T.5S., R.26E.																						
Sec. 19	Safford	"	G. L. Hoopes	10/62	750	50	---	IDS	81142	3.9	2470	32	10	849	994	395	0	190	0	94.0	:::	:::
Sec. 19	"	"	"	10/62	750	50	---	IDS	81143	4.1	2634	40	13	896	1069	435	0	181	0	92.6	:::	:::
Sec. 19	"	"	"	10/62	750	50	---	IDS	81144	4.9	3021	48	19	1029	1259	510	0	156	0	91.8	:::	:::
T.5S., R.30E.																						
Sec. 19	Clifton	Greenlee	Mrs. Harry Hyatt	10/50	80	20	---	I-D	59457	0.7	494	23	11	59	34	134	0	232	--	55.6	2.6	C2-S1
T.5S., R.31E.																						
Sec. 17	"	"	"	4/57	40	25	---	I-D	68313	3.6	2513	208	41	499	240	1000	0	525	--	61.1	8.3	C4-S3
T.6S., R.2E.																						
Sec. 1-2	Maricopa	Pinal	Y. F. Ranches	3/58	800	400	Borg 2	I	60235	1.5	1081	44	17	288	243	304	0	183	--	77.6	9.5	C3-S2
Sec. 1-2	"	"	"	3/58	850	400	Borg 4	I	60237	1.3	909	26	T	211	199	208	0	203	--	87.5	11.5	C3-S2
Sec. 1-2	"	"	"	3/58	900	400	Borg 5	I	60239	1.3	884	34	12	237	202	192	0	205	--	79.2	9.4	C3-S2
T.6S., R.3E.																						
Sec. 1	Casa Grande	"	Jim Self & Sons	4/51	600	150	---	I-D	C2623	0.7	464	38	11	83	48	90	0	185	9	56.3	3.0	C2-S1
Sec. 1	"	"	Fred Bowling	11/50	350	150	---	---	C2344	0.8	528	60	11	78	66	70	0	190	53	46.5	2.5	C3-S1
Sec. 1	"	"	"	11/50	250	140	---	---	C2343	0.6	447	75	15	27	32	80	0	210	8	19.0	0.8	C2-S1
Sec. 1	"	"	L. Storey	6/55	530	150	---	I	208-W	0.5	454	40	7	83	54	75	0	195	--	58.0	3.0	C2-S1
Sec. 3	"	"	Miller & Decker	3/56	---	---	---	I	275-W	0.4	357	29	12	58	50	25	0	183	--	50.0	2.3	C2-S1
Sec. 6	"	"	M. P. Smith	12/54	700	200	---	I	103-W	0.7	577	23	0	156	80	85	0	233	--	86.0	9.2	C2-S2
Sec. 7	"	"	E. R. Moore	12/54	750	250	---	I	110-W	0.9	735	15	0	221	134	105	6	254	--	92.0	15.2	C3-S3
Sec. 7	"	"	Erickson	12/54	800	270	---	I	106-W	0.9	731	23	4	207	148	100	0	249	--	86.0	12.0	C3-S3
Sec. 8	Stanfield	"	M. P. Smith	12/54	1200	220	---	I	102-W	0.6	496	15	4	133	60	70	6	208	--	85.0	7.2	C2-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC x 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.6S., R.3E.																						
Sec. 10	Stanfield	Pinal	M. Palmer Farm	3/56	1200	---	---	I	272-W	0.5	444	14	6	115	50	125	0	134	--	81.0	6.5	C2-S1
Sec. 15	"	"	Louis Johnson	8/56	---	---	---	I	67110	0.4	282	12	8	60	40	35	0	127	--	67.4	3.7	C2-S1
Sec. 15	"	"	"	8/56	---	---	---	I	67111	0.5	347	10	9	78	30	30	0	190	--	73.2	4.5	C2-S1
Sec. 15	"	"	"	8/56	---	---	---	I	67112	0.5	350	18	12	69	50	55	0	146	--	61.3	3.0	C2-S1
Sec. 18	"	"	M. P. Smith	12/54	650	280	---	I	104-W	0.9	700	11	6	202	132	105	0	244	--	89.1	12.4	C3-S3
Sec. 18	"	"	"	12/54	680	300	---	I	105-W	1.0	756	34	2	209	176	115	0	220	--	83.0	9.6	C3-S2
Sec. 18	"	"	"	12/54	725	330	---	I	107-W	1.3	847	49	19	207	250	120	0	202	--	70.0	6.4	C3-S2
Sec. 19	"	"	"	12/54	1200	330	---	I	108-W	1.5	945	83	30	187	310	145	0	190	--	55.0	4.5	C3-S1
Sec. 19	"	"	"	12/54	800	320	---	I	109-W	1.1	798	41	2	218	206	120	0	210	--	81.0	9.1	C3-S2
Sec. 21	"	"	A. Harris	1/55	721	322	---	I	130-W	0.8	669	15	8	186	128	100	0	232	--	86.0	10.0	C3-S2
Sec. 36	"	"	Bob Gold	3/58	660	380	---	I	70294	1.1	792	17	13	220	121	163	0	256	70	83.2	9.8	C3-S2
Sec. 36	"	"	"	5/58	660	380	---	I	70660	1.2	825	24	5	230	130	188	4	244	--	86.1	11.0	C3-S3
T.6S., R.4E.																						
Sec. 2	"	"	H. Russell	3/55	484	180	---	I	144-W	2.1	1578	322	26	184	580	300	0	171	9	30.0	2.7	C3-S1
Sec. 4	"	"	Anderson Brothers Ranch	3/58	350	240	---	I-S	464-W	0.6	530	52	14	101	87	120	0	156	--	53.8	3.2	C2-S1
Sec. 4	Casa Grande	"	Connolley & North	6/55	800	280	---	I	66029	1.3	909	15	2	281	154	128	0	329	--	92.2	17.4	C3-S4
Sec. 4	"	"	"	6/55	800	280	---	I	66028	1.2	803	15	4	235	144	125	T	280	--	90.4	12.5	C3-S3
Sec. 4	"	"	"	6/55	800	280	---	I	66030	1.4	997	23	7	285	190	150	0	342	--	87.7	11.0	C3-S2
Sec. 9	"	"	Anderson Brothers Ranch	3/58	350	240	---	I-S	463-W	0.4	490	55	13	71	66	114	0	171	--	44.0	2.2	C2-S1
Sec. 9	"	"	"	5/58	---	---	---	I	494-W	0.5	470	58	8	76	78	99	0	151	--	48.1	2.5	C2-S1
Sec. 10	"	"	J. Self, Jr.	5/58	1250	214	---	I	493-W	0.5	554	54	9	101	82	116	0	185	--	56.0	3.8	C2-S1
Sec. 11	"	"	J. Ollerton	9/54	530	190	---	I	51-W	0.7	364	83	11	10	92	---	5	163	--	7.7	0.3	C2-S1
Sec. 11	"	"	"	9/54	500	190	---	I	59-W	0.7	506	67	4	81	84	90	0	180	--	49.0	2.6	C2-S1
Sec. 11	"	"	R. C. Beauchamp & Sons	7/62	500	---	---	I	80840	1.4	768	112	22	103	218	134	0	161	18	37.7	2.3	C3-S1
Sec. 11	"	"	"	7/62	1025	---	---	I	80841	1.2	705	89	18	106	154	149	0	178	11	43.6	2.7	C3-S1
Sec. 12	"	"	J. Ollerton	11/54	500	200	---	I	89-W	1.6	991	232	19	71	380	160	0	129	--	19.0	1.2	C3-S1
Sec. 12	"	"	"	11/54	600	210	---	I	90-W	1.3	776	198	11	21	260	140	0	146	--	7.7	0.4	C3-S1
Sec. 12	"	"	"	9/54	469	210	---	I	60-W	1.8	1162	232	11	140	420	200	0	159	--	32.0	2.4	C3-S1
Sec. 15	Stanfield	"	J. & K. Wood	6/61	400	275	---	I-D	78293	0.7	537	53	18	81	83	91	0	158	53	46.2	2.6	C2-S1
Sec. 16	"	"	Anderson Brothers Ranch	3/58	---	240	---	I-S	461-W	0.4	439	48	2	94	46	86	0	163	--	61.0	3.5	C2-S1
Sec. 16	"	"	"	3/58	---	240	---	I-S	460-W	0.4	426	45	1	92	42	87	0	159	--	63.0	4.5	C2-S1
Sec. 19	"	"	Eddie Kortson	4/51	450	225	---	I	60634	0.6	394	45	4	64	40	56	0	185	--	51.8	2.3	C2-S1
Sec. 35	Casa Grande	"	E. R. Roberson	2/59	---	---	---	I	72581	0.6	388	43	5	62	32	70	0	176	--	51.2	2.3	C2-S1
Sec. 36	"	"	7-Way Ranch	12/51	500	---	South	I-D	C3077	1.3	881	45	11	227	202	180	0	200	16	75.8	7.8	C3-S2
Sec. 36	"	"	"	12/51	600	---	North	I	C3078	1.3	817	15	4	238	132	150	0	264	14	85.7	13.7	C3-S3
T.6S., R.5E.																						
Sec. 4	Nunez	"	R. S. McCartney	7/52	---	---	---	---	C3529	3.1	2176	8	8	678	248	610	31	593	--	96.4	:::	:::
Sec. 6	Casa Grande	"	P. H. Ethington	10/50	---	---	12	I	C2272	6.3	4607	465	68	982	1112	1680	0	300	--	58.7	:::	:::
Sec. 7	"	"	Campbell Farms	2/52	375	125	10	I	C3188	4.0	2770	180	30	686	550	900	0	398	26	61.0	7.4	C4-S2
Sec. 7	"	"	Coury	9/55	1200	124	---	I	242-W	0.7	520	23	2	101	50	70	5	159	--	77.0	5.5	C2-S1
Sec. 7	"	"	Braun-Thompson	8/54	700	138	---	I	91-W	1.9	1332	307	11	138	470	260	0	146	--	27.0	2.2	C3-S1
Sec. 10	"	"	P. H. Ethington	10/50	---	---	14	I	C2273	7.2	5064	600	105	949	1322	1820	0	268	--	51.6	:::	:::
Sec. 11	"	"	W. F. Cleveland	5/55	200	34	---	I	65890	3.8	2692	286	68	506	774	560	0	498	--	52.5	7.1	C4-S2
Sec. 11	"	"	"	5/55	160	33	---	I	65891	3.4	2392	283	48	442	732	560	0	427	--	51.5	6.4	C4-S2
Sec. 16	"	"	P. H. Ethington	10/50	---	---	3	I	C2267	4.5	3163	300	45	684	722	1080	0	332	--	61.4	9.6	C4-S3
Sec. 16	"	"	Campbell Farms	2/52	200	120	7	I	C3189	7.5	5275	540	83	1104	1230	2000	0	268	50	58.6	:::	:::
Sec. 16	"	"	"	2/52	292	100	10	I	C3190	5.9	4133	375	60	913	930	480	0	329	46	62.6	:::	:::
Sec. 16	"	"	Braun-Thompson	5/55	500	80	---	I	198-W	4.4	3069	294	19	702	690	1080	0	283	--	65.0	10.7	C4-S3

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.6S., R.5E.																						
Sec. 16	Casa Grande	Pinal	P. H. Ethington	10/50	---	---	4	I	C2268	4.5	3180	210	45	775	661	1060	0	429	--	70.3	12.5	C4-S4
Sec. 16	"	"	"	10/50	---	---	6	I	C2269	7.0	4905	435	60	1130	1196	1740	0	344	--	64.7	:::	:::
Sec. 17	"	"		10/50	---	---	8	I	C2270	4.7	3294	345	53	673	770	1160	0	293	--	57.5	9.3	C4-S3
Sec. 17	"	"	"	10/50	---	---	10	I	C2271	6.6	4586	435	60	1029	1200	1540	0	322	--	62.8	:::	:::
Sec. 20	"	"	Braun-Thompson	6/56	550	170	---	I	328-W	5.1	3538	580	136	53	1060	1360	0	349	--	35.4	:::	:::
Sec. 20	"	"	J. Jay	1/55	600	250	---	I	265-W	2.8	1924	217	28	380	560	530	0	171	--	56.0	6.4	C4-S2
Sec. 21	"	"	Campbell Farms	2/52	158	100	---	I	C3191	5.3	3724	293	49	874	820	1280	0	371	37	67.0	:::	:::
Sec. 21	"	"	Bert Campbell	10/50	400	160	---	IDS	C3026	3.1	2163	203	34	476	594	600	0	238	18	61.5	8.2	C4-S3
Sec. 21	"	"	P. H. Ethington	10/50	---	---	1	I	C2266	5.6	3897	330	38	917	884	1360	0	368	--	67.0	:::	:::
SE¼,SW¼ Sec. 23	"	"	San Carlos Irrigation	8/63	100	---	107	I	83040	2.4	1602	91	22	393	326	375	0	366	29	72.8	9.5	C4-S3
Sec. 24	"	"	Buster Brown	12/60	470	300	3	I	77339	1.0	661	71	15	115	124	172	0	154	10	51.1	3.3	C3-S1
Sec. 24	"	"	"	12/60	600	300	4	I	77340	1.4	853	125	23	110	154	305	0	110	26	36.9	2.4	C3-S1
Sec. 29	"	"	V. Z. Walton	11/54	700	170	---	I	87-W	1.2	833	210	15	21	320	145	0	122	--	7.0	0.4	C3-S1
Sec. 30	"	"	V. Horchheimer	5/61	1190	250	---	I	78272	0.7	482	31	1	119	81	98	0	134	18	76.1	5.9	C2-S1
Sec. 30	"	"	W. W. Ritchey	2/55	1000	---	---	I	132-W	0.8	548	90	8	69	112	110	0	159	--	37.0	1.8	C3-S1
Sec. 31	"	"	G. M. Marsh	----	630	230	---	I	199-W	0.7	484	27	15	101	68	110	0	163	--	64.0	3.8	C2-S1
Sec. 32	"	"	W. W. Ritchey	3/58	---	---	---	I	469-W	0.7	499	60	15	71	102	92	0	159	--	42.1	2.2	C3-S1
Sec. 32	"	"	H.G.B. Farms	3/61	400	---	188	I	745-W	0.8	580	64	14	98	112	155	0	137	--	49.5	2.8	C3-S1
T.6S., R.6E.																						
Sec. 4	"	"	R. S. McCartney	6/50	380	73	---	I-D	C2013	0.6	425	0	0	128	26	90	0	181	--	100.0	:::	:::
Sec. 6	"	"	Edward Hooper	5/61	800	400	---	I	78257	0.5	342	26	10	59	42	55	0	144	6	54.5	2.6	C2-S1
Sec. 6	"	"	"	5/61	800	400	---	I	78258	0.5	354	26	9	65	49	55	0	144	6	58.2	3.0	C2-S1
Sec. 7	"	"	R. G. Jones	1/60	620	140	---	I-D	74888	1.7	1164	54	5	330	251	400	2	120	2	82.2	11.5	C3-S3
Sec. 8	"	"	Gilbert Brothers	2/57	250	---	---	I	381-W	0.8	555	23	3	150	90	130	0	158	--	82.0	7.6	C3-S2
Sec. 8	"	"	"	2/57	80	---	---	I	380-W	0.8	591	23	5	156	100	140	0	165	--	81.0	7.5	C3-S2
Sec. 9	"	"	Underdown	3/54	200	80	---	I	162-W	0.5	355	8	6	78	54	80	0	129	--	79.0	4.4	C2-S1
Sec. 9	"	"	Gilbert Brothers	9/56	---	---	---	I	360-W	0.7	480	21	5	122	58	138	5	142	--	78.4	6.2	C2-S1
Sec. 10	"	"	P. Taber	12/57	485	43	---	I	452-W	4.6	3200	400	37	267	478	820	0	271	--	33.5	3.4	C4-S2
Sec. 12	"	"	Leon Guthrie	9/50	213	---	---	I	C2183	0.6	397	30	8	78	54	60	0	163	4	55.0	3.9	C2-S1
Sec. 12	"	"	"	4/61	---	---	---	I-D	77978	0.6	336	30	7	47	59	67	0	122	4	49.6	2.2	C2-S1
Sec. 12	"	"	"	4/59	---	---	---	I	72948	0.7	490	43	8	137	93	80	0	124	5	68.0	4.8	C2-S1
Sec. 13	"	"	H. M. Martins	3/51	300	75	---	IDS	C2540	0.6	384	30	4	80	42	80	0	144	4	65.3	3.8	C2-S1
Sec. 13	"	"	B. J. McReynolds	3/57	---	---	---	---	68238	0.5	313	21	13	28	72	45	0	134	--	36.5	1.3	C2-S1
Sec. 14	"	"	Herman Diwan	7/59	---	---	C.G.#60	I	594-W	1.2	756	102	23	110	204	180	0	137	--	40.5	2.5	C3-S1
Sec. 16	"	"	Gilbert Bros.	6/62	410	---	1	I	80703	1.5	1037	144	29	142	214	320	0	151	37	39.2	2.9	C3-S1
Sec. 16	"	"	"	6/62	385	---	4	I	80706	3.0	2411	308	66	560	416	770	0	224	67	75.0	7.6	C4-S2
Sec. 16	"	"	"	6/62	600	---	7	I	80709	0.5	310	9	3	79	22	65	0	127	5	83.1	6.0	C2-S1
Sec. 17	"	"	E. R. Johnson	3/50	206	48	---	I-D	C1768	1.4	1011	158	23	133	236	280	0	156	25	37.1	2.6	C3-S1
Sec. 17	"	"	Arizona Public Service	7/53	---	---	13	I-D	63081	2.7	1879	398	8	201	476	600	0	195	--	29.8	2.8	C4-S1
Sec. 17	"	"	"	7/53	---	---	14A	I-D	63082	0.9	609	38	11	137	84	197	0	139	--	68.0	5.0	C3-S1
Sec. 18	"	"	Paul E. Carron	6/51	325	50	---	IDS	C2827	1.1	737	53	11	158	60	280	2	166	7	65.8	5.0	C3-S1
Sec. 18	"	"	Everett Wright	6/60	490	130	---	IDS	76611	1.8	1155	132	27	200	332	300	0	117	34	51.2	4.2	C3-S1
Sec. 20	"	"	Arizona Public Service	7/53	---	---	4A	I-D	63078	2.0	1411	262	15	172	338	455	0	168	--	34.2	2.8	C3-S1
Sec. 21	"	"	"	8/53	---	---	10A	I-D	63116	2.6	1830	375	4	218	480	574	0	178	--	36.3	3.1	C4-S1
Sec. 21	"	"	City of Casa Grande	6/60	355	145	---	I-D	76631	2.1	1644	214	86	182	384	555	0	200	17	31.5	2.7	C3-S1
Sec. 21	"	"	"	8/62	---	---	---	I-D	80950	0.8	508	28	10	117	71	155	0	115	12	69.6	4.8	C3-S1
Sec. 22	"	"	Arizona Public Service	7/53	---	---	8	I-D	63079	1.1	744	82	8	143	132	232	0	146	--	56.6	4.0	C3-S1
Sec. 23	"	"	Herman Diwan	7/59	---	---	C.G.#60	I	593-W	0.5	298	19	1	70	20	70	6	112	--	74.6	4.4	C2-S1
Sec. 24	"	"	K. Carlton	5/55	735	104	---	I	215-W	0.7	491	53	5	97	104	98	0	134	--	59.0	3.3	C2-S1
Sec. 24	"	"	"	6/55	900	89	---	I	216-W	0.7	463	37	8	99	100	80	0	139	--	64.0	3.8	C2-S1
Sec. 25	"	"	R. E. Palmer	3/57	280	170	---	I	392-W	0.7	496	67	16	67	136	78	0	132	--	38.0	2.8	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.6S., R.6E.																						
Sec. 26	Casa Grande	Pinal	J. A. Feran	3/53	500	70	2	I	C4219	2.9	2010	360	53	205	444	700	0	176	--	28.5	2.7	C4-S1
Sec. 27	"	"	Helen Shaw	3/58	510	151	---	I	466-W	0.6	443	4	9	115	37	88	0	190	--	85.0	7.4	C2-S2
Sec. 27	"	"	"	3/58	510	151	---	I	467-W	0.7	463	9	6	122	47	96	0	183	--	84.0	7.5	C2-S2
Sec. 27	"	"	O. W. Rugg	8/52	---	---	---	---	C3620	2.7	1860	330	53	186	418	620	0	181	72	27.8	2.5	C4-S1
Sec. 28	"	"	Arizona Public Service	7/53	---	---	9	I-D	63080	2.5	1747	345	19	199	460	562	0	161	--	31.5	2.9	C4-S1
Sec. 28	"	"	O. W. Rugg	5/59	300	225	---	I	590-W	2.8	2254	362	70	266	484	950	0	122	48	32.7	3.4	C4-S1
Sec. 28	"	"	"	5/59	300	200	---	I	591-W	3.3	3006	438	151	311	640	1300	0	166	53	28.0	3.2	C4-S2
Sec. 28	"	"	"	5/59	300	100	---	I	489-W	3.0	2125	367	75	212	547	704	0	166	54	27.0	2.7	C4-S1
Sec. 33	"	"	Bill Findley	5/50	---	---	---	I-D	C1851	1.7	1186	165	26	171	232	350	0	232	--	41.5	3.3	C3-S1
Sec. 33	"	"	D. D. Trekell	7/56	250	150	---	IDS	67114	3.2	2205	368	158	127	680	750	0	122	--	14.9	1.4	C4-S1
SW¼,SW¼ Sec. 34	"	"	San Carlos Irrigation	8/63	490	161	102	I	83021	2.8	1893	257	44	310	502	640	0	117	23	44.6	4.6	C4-S2
Sec. 35	"	"	U. R. Neely	3/56	500	160	---	I	284-W	1.9	1294	122	22	264	220	520	0	146	--	60.0	5.8	C3-S2
T.6S., R.7E.																						
Sec. 5	Coolidge	"	J. E. Woodruff	6/58	300	90	JW-3	I	497-W	0.4	311	27	2	62	32	53	T	135	--	64.0	3.0	C2-S1
Sec. 5	"	"	"	3/60	---	---	CPL#3	I	75818	0.5	380	19	2	92	32	100	0	129	6	77.0	5.5	C2-S1
Sec. 8	"	"	"	3/60	---	---	Diesel5	I	75820	0.5	358	25	3	81	30	83	2	129	6	71.0	4.1	C2-S1
Sec. 8	"	"	"	6/58	358	125	JW-5	I	499-W	0.4	307	32	4	51	28	50	0	142	--	54.0	2.3	C2-S1
Sec. 8	"	"	"	5/58	280	140	JW-4	I	498-W	0.5	334	28	1	71	41	54	0	139	--	67.0	3.5	C2-S1
Sec. 10	"	"	J. A. Roberts	8/58	400	170	JAR-2	I	514-W	1.0	720	13	2	230	203	130	0	142	--	93.0	17.0	C3-S3
Sec. 10	"	"	"	8/58	1400	170	JAR-1	I	513-W	1.2	838	18	4	127	187	260	36	63	--	91.0	15.8	C3-S3
Sec. 10	"	"	Ferguson	6/51	250	80	---	I-D	C2736	0.5	333	30	4	61	28	50	0	156	4	59.0	2.9	C2-S1
Sec. 14	Casa Grande	"	R. E. Palmer	5/57	500	160	---	I	396-W	0.5	317	25	5	64	72	T	0	131	--	62.0	3.0	C2-S1
Sec. 14	"	"	"	5/57	800	160	---	I	395-W	0.9	592	72	8	168	110	88	0	146	--	63.0	5.2	C3-S1
Sec. 15	"	"	R. C. Jones	1/61	175	13	---	I-D	77397	1.1	755	124	15	87	112	270	0	144	3	33.4	1.9	C3-S1
Sec. 15	"	"	"	2/61	404	26	---	I-D	77430	0.3	202	23	2	30	8	19	0	120	--	49.6	1.3	C2-S1
Sec. 19	"	"	R. D. Melick	1/62	732	140	---	I-D	79609	0.9	678	88	13	105	119	195	0	146	10	45.8	2.6	C3-S1
Sec. 19	"	"	J. T. Manders	7/52	602	---	---	I	62103	1.0	663	113	11	79	140	166	0	154	--	34.3	1.9	C3-S1
Sec. 19	"	"	B. Gladden	5/56	800	85	---	I	309-W	0.4	265	27	5	14	62	20	0	137	--	25.7	0.6	C2-S1
Sec. 19	"	"	A. B. Davis	3/51	600	80	---	IDS	C2552	1.6	1130	180	15	156	238	310	0	215	16	39.7	3.0	C3-S1
Sec. 24	Coolidge	"	R. C. Nowell	9/51	---	---	---	I	61196	3.2	2202	390	19	326	712	584	0	171	--	40.2	4.4	C4-S2
Sec. 24	"	"	Smith	7/54	600	185	1	I	64608	4.1	2881	323	19	607	638	1070	0	224	--	59.8	9.9	C4-S3
Sec. 24	"	"	"	7/54	600	185	2	I	64609	5.4	3747	638	8	603	1042	1180	0	276	--	44.6	6.8	:::
Sec. 28	Arizola	"	Robert Cockrill	4/59	410	360	---	I	72959	0.6	401	52	10	52	65	50	0	166	6	39.7	1.8	C2-S1
Sec. 30	"	"	R. E. Palmer	3/57	600	170	---	I	394-W	0.9	633	72	14	179	116	106	0	146	--	63.0	5.2	C3-S1
Sec. 30	"	"	San Carlos Irrigation	3/49	420	68	116	I	54459	1.6	1092	180	11	152	266	288	0	195	--	40.0	3.0	C3-S1
NE¼,NE¼ Sec. 30	"	"	"	8/63	420	147	116	I	83017	0.7	459	46	6	88	88	87	0	137	7	57.7	3.1	C2-S1
Sec. 32	"	"	Robert Cockrill	4/59	410	370	---	I	72957	0.5	348	38	6	52	26	45	0	176	5	48.4	2.0	C2-S1
Sec. 32	"	"	"	4/59	300	280	---	I	72958	1.1	765	128	23	80	198	150	0	176	10	29.5	1.8	C3-S1
Sec. 33	"	"	"	4/59	470	380	---	I	72954	1.1	776	130	29	75	246	130	0	149	17	26.8	1.6	C3-S1
Sec. 33	"	"	"	4/59	502	440	---	I	72955	0.6	387	47	6	60	63	50	0	156	5	47.8	2.2	C2-S1
Sec. 33	"	"	"	4/59	470	440	---	I	72956	0.5	313	30	4	54	32	30	0	159	4	56.0	2.5	C2-S1
Sec. 33	"	"	Bob Palmer	3/57	1000	120	---	I	390-W	0.5	378	28	10	71	60	50	0	159	--	58.0	3.0	C2-S1
T.6S., R.8E.																						
Sec. 1	Coolidge	"	Paul Prechel	2/59	550	230	---	I	72538	2.0	1413	141	33	273	320	440	4	173	29	55.0	5.4	C3-S2
Sec. 1	"	"	"	6/60	---	---	---	I-D	76560	2.2	1897	204	43	342	344	700	0	224	40	52.1	5.8	C3-S2
Sec. 1	"	"	"	5/62	590	260	---	I-D	80553	3.0	2119	266	55	332	408	770	0	228	60	44.7	5.0	C4-S2
Sec. 1	"	"	A. L. Nowell	5/63	---	---	---	I-D	82375	3.0	1928	248	174	122	388	720	0	254	22	78.1	1.5	C4-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.6S., R.8E.																						
Sec. 2	Coolidge	Pinal	Glenn Lane Farm	5/58	---	---	---	I	70814	2.8	1943	272	73	177	497	720	0	203	--	28.2	2.5	C4-S1
Sec. 2	"	"	"	5/58	---	---	---	I	70815	2.7	1879	212	53	320	406	680	0	207	--	48.1	5.0	C4-S2
Sec. 2	"	"	Armstrong Investment Co.	4/60	400	175	1	I	630-W	2.4	1725	229	47	268	420	585	0	176	--	43.2	4.2	C4-S2
Sec. 2	"	"	"	4/60	500	178	2	I	631-W	2.9	2163	285	58	335	496	760	0	229	--	43.3	4.6	C4-S2
Sec. 2	"	"	"	3/60	400-500	178	---	I	621-W	2.7	1904	259	51	288	456	650	0	200	--	42.2	3.4	C4-S1
Sec. 3	"	"	Grant Peterson	4/51	400	100	---	I	C2625	1.4	970	83	19	210	254	220	0	161	23	61.5	5.5	C3-S2
Sec. 3	"	"	A. L. Bartlett	9/56	1750	150	---	I	359-W	3.9	2734	172	8	379	1060	1000	0	115	--	64.0	7.7	C4-S3
Sec. 3	"	"	"	7/51	395	---	New	I	C2841	1.8	1284	150	19	243	318	340	0	183	31	53.9	5.0	C3-S2
Sec. 3	"	"	"	7/51	---	---	Old	I	C2844	2.3	1581	225	41	241	502	330	0	229	13	41.7	3.9	C4-S2
Sec. 4	"	"	Shiflet	11/54	219	---	---	I	93-W	1.5	1043	180	12	108	380	165	0	195	33	32.0	2.0	C3-S1
Sec. 5	"	"	Arizona Public Service	8/53	1400	---	6	I-D	63115	1.2	840	60	4	219	234	193	0	129	--	74.0	7.5	C3-S2
Sec. 10	Randolph	"	Kleck Farm	6/58	800	110	3	I	500-W	1.7	1184	132	19	244	402	248	0	139	--	56.0	5.2	C3-S2
Sec. 10	"	"	"	4/58	800	110	2	I	472-W	2.3	1586	130	22	403	677	232	0	122	--	68.0	8.6	C4-S2
Sec. 10	"	"	"	4/58	800	110	1	I	471-W	1.1	800	59	4	209	272	124	0	132	--	73.0	7.0	C3-S2
Sec. 10	"	"	"	2/55	800	---	---	I	118-W	1.0	689	90	---	124	208	110	0	151	6	55.0	3.6	C3-S1
Sec. 13	"	"	R. Gorree	3/61	500	---	---	I	728-W	1.1	652	45	8	152	137	125	0	185	--	69.5	5.5	C3-S2
Sec. 16	"	"	Arizona Children's Home	4/50	400	---	---	I-D	C1773	0.7	485	60	8	78	98	60	0	181	--	48.2	2.5	C2-S1
Sec. 27	La Palma	"	W. H. Wuertz	2/58	500	135	---	I	70223	2.0	1375	130	42	244	275	320	0	364	--	51.6	7.3	C3-S2
Sec. 27	"	"	R. P. Anderson	3/59	400	126	---	I-S	548-W	1.0	612	74	14	98	141	100	0	185	--	47.0	2.7	C3-S1
Sec. 27	"	"	W. H. Wuertz	12/54	---	---	---	I	C5276	0.7	480	75	8	59	88	166	0	166	4	36.8	1.8	C2-S1
Sec. 28	"	"	San Carlos Irrigation	8/63	1115	---	81	I	83028	0.9	615	57	8	129	147	110	0	156	8	61.4	4.2	C3-S1
Sec. 31	"	"	Buster Brown	5/58	568	62	---	I	70847	1.2	818	111	15	133	203	200	0	156	--	46.0	3.1	C3-S1
Sec. 31	"	"	W. Davis	2/55	400	---	6	I-S	122-W	1.1	764	172	11	53	210	130	0	188	--	20.0	1.9	C3-S1
Sec. 34	Coolidge	"	R. T. Anderson	3/59	400	146	Old	I	550-W	1.7	1072	139	35	144	226	240	0	288	0	39.0	2.8	C3-S1
Sec. 35	"	"	"	3/59	400	136	New	I	558-W	1.3	846	104	18	134	178	170	0	242	--	46.5	3.1	C3-S1
Sec. 35	Casa Grande	"	Veg-Oil Products	3/62	1000	160	---	I	80179	0.5	401	17	5	98	38	105	0	132	6	97.2	5.5	C2-S1
Sec. 36	Coolidge	"	R. C. Nowell	9/51	---	---	Whitlock	I	61196	3.2	2202	390	19	326	712	584	0	171	--	40.2	4.4	C4-S2
T.6S., R.9E.																						
Sec. 1	"	"	Paul Prechel	5/61	450	260	---	I	78134	2.7	2001	245	50	321	388	710	0	230	56	46.0	4.9	C4-S2
Sec. 6	"	"	San Carlos Irrigation	3/61	1050	170	---	I	729-W	1.2	702	16	2	222	176	190	6	90	--	90.8	13.9	C3-S3
Sec. 17	"	"	S. W. Hanson	---	---	---	---	---	391-W	0.8	556	28	7	140	120	90	0	171	--	76.0	6.1	C3-S2
T.6S., R.16E.																						
Sec. 8	Feldman	"	George Gordon	3/59	110	28	---	I-S	567-W	1.0	768	83	18	115	44	230	0	278	--	47.0	3.0	C3-S1
T.6S., R.17E.																						
Sec. 24	"	"	Coleman Ranch	2/55	---	---	---	I	128-W	2.1	1473	210	68	267	578	300	0	317	3	41.8	4.1	C3-S2
T.6S., R.19E.																						
SW¼ Sec. 19	Aravaipa Canyon	"	L. Mendoza	3/60	---	---	Ditch	I	75821	0.5	420	54	10	53	16	60	4	224	3	40.0	1.8	C2-S1
Sec. 27	Klondyke	Graham	Wesley Bryce	10/54	---	---	---	IDS	64867	0.5	370	42	10	46	34	40	0	198	--	40.6	1.6	C2-S1
T.6S., R.24E.																						
Sec. 1	Thatcher	"	J. D. Lee	4/57	60	50	---	I	68453	7.2	5009	146	50	1518	1580	1000	0	715	--	85.2	:::	:::
Sec. 2	"	"	L. Hancock	5/51	86	55	---	I-S	60719	7.3	5116	143	11	1788	1544	1400	0	770	--	90.6	:::	:::
Sec. 3	Eden	"	Bob Colvin	6/61	52	30	---	I	78294	5.0	3973	82	65	1207	1356	668	0	574	1	84.8	:::	:::
Sec. 4	Pima	"	Ft. Thomas Dam	4/62	---	---	Ft. T. Dam	I	799-W	0.5	391	35	10	67	55	62	0	156	--	53.2	3.6	C2-S1
Sec. 4	"	"	Fred Sanchez	5/59	74	45	---	I	73254	6.1	4245	209	115	1094	1480	825	0	522	--	70.4	:::	:::
Sec. 13	Safford	"	Elwood Wright	12/58	---	---	---	I	72211	0.8	552	30	3	136	73	120	0	190	0	77.1	6.3	C3-S2
Sec. 18	"	"	W. A. Lines	3/54	55	25	---	IDS	63992	4.0	2870	352	8	575	966	340	0	628	--	57.7	8.3	C4-S3
Sec. 19	"	"	"	3/54	55	25	---	IDS	63993	3.2	2241	278	4	465	703	316	0	473	--	58.6	7.3	C4-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.6S., R.24E.																						
Sec. 20	Safford	Graham	W. A. Lines	3/54	35	11	---	IDS	63991	3.5	2449	292	8	537	790	316	0	505	--	60.4	7.3	C4-S2
Sec. 25	Pima	"	Verl Cluff	6/53	60	50	---	I-S	62966	3.9	2730	135	4	784	798	450	0	559	--	82.8	18.0	C4-S4
T.6S., R.25E.																						
Sec. 7	Bryce	"	A. A. Walker	7/61	48	32	---	I	775-W	4.5	2964	160	61	761	954	525	0	503	--	71.8	13.0	C4-S4
Sec. 12	Thatcher	"	Nathan Motes	9/54	118	91	---	IDS	64756	2.7	1890*	212	70	306	724	130	0	447	--	44.8	4.6	C4-S2
Sec. 18	Pima	"	Dodge-Nev. Canal Co.	11/59	50	---	---	I	74524	4.9	3396	209	91	822	1230	565	0	444	35	66.6	11.8	C4-S4
Sec. 18	Bryce	"	Lavell Welker	7/61	38	20	---	I	776-W	4.5	3012	192	69	724	950	525	0	552	--	67.4	11.5	C4-S4
Sec. 18	"	"	Lines Brothers	5/56	30-100	---	---	I	316-W	2.9	2031	200	37	437	800	69	0	488	--	59.0	7.4	C4-S2
Sec. 19	Pima	"	"	5/56	30-100	---	---	I	318-W	2.8	1974	170	78	388	800	63	0	475	--	53.0	6.2	C4-S2
Sec. 19	"	"	G. A. Taylor	3/57	40	30	---	I	68316	4.1	2885	142	91	699	900	480	0	573	--	67.5	11.1	C4-S3
Sec. 19	"	"	Bob G. Brown	3/60	30	20	---	I	75436	2.4	1913	47	20	621	326	278	0	610	11	87.2	19.0	C4-S4
Sec. 19	"	"	B. McBride	7/61	38	19	---	I-S	78524	4.0	2637	132	101	612	884	380	0	497	31	64.0	9.8	C4-S3
Sec. 19	"	"	R. Saline	7/57	47	30	---	I-D	68833	5.9	4146	117	97	1210	1390	600	0	732	--	79.2	:::	:::
Sec. 22	"	"	C. Watson	3/56	---	---	---	I	280-W	4.9	3422	153	106	863	1020	780	0	500	--	70.0	:::	:::
Sec. 22	"	"	"	3/56	---	---	---	I	281-W	4.6	3212	130	108	802	970	700	0	500	--	69.0	12.5	C4-S4
Sec. 25	Central	"	Grant Morris	4/61	50	22	---	I	748-W	2.7	2000	68	22	560	500	345	0	505	--	82.4	15.0	C4-S4
NW¼,NW¼ Sec. 28	"	"	G. Hooper	5/56	70	55	---	IDS	66905	5.0	3502	239	118	773	1230	520	0	622	--	60.8	:::	:::
NW¼,NW¼ Sec. 28	"	"	"	5/56	68	55	---	IDS	66906	5.7	3959	298	49	989	1340	600	0	683	--	69.4	:::	:::
Sec. 28	"	"	Smithville Canal Co.	11/59	60	---	---	I	74526	5.3	3792	300	168	742	1359	635	0	542	46	52.9	:::	:::
Sec. 28	Thatcher	"	Gorden Hoopes	5/61	100	50	---	I	78005	5.5	3804	297	151	780	1346	675	0	555	--	55.4	:::	:::
Sec. 29	Pima	"	Rodney Alder	2/55	65	40	---	IDS	65409	3.6	2494	69	69	676	820	270	0	588	--	76.2	14.8	C4-S4
Sec. 29	"	"	"	7/58	65	40	---	IDS	71240	4.6	3220	90	64	906	900	728	0	532	--	80.1	:::	:::
NE¼,NE¼ Sec. 33	Central	"	Bill Cluff	10/54	---	---	Canal	I	64859	1.3	892	86	24	170	266	95	0	251	--	54.0	6.8	C3-S2
NE¼,NE¼ Sec. 33	"	"	R. Norton	9/54	85	50	---	I	64874	2.0	1377	114	39	292	470	140	0	322	--	59.2	6.1	C3-S2
Sec. 33	"	"	J. A. Shiflet	10/54	85	80	River	I	64864	1.0	687	67	17	122	152	85	0	244	--	52.7	3.5	C3-S1
Sec. 34	"	"	Ronald Cluff	10/54	40	---	---	I	64872	4.1	2861	314	25	644	1166	200	0	512	--	61.1	9.7	C4-S3
Sec. 34	"	"	Darl Layton	10/54	28	17	---	I	64875	4.1	2840	315	48	598	1170	180	0	529	--	56.9	8.3	C4-S3
Sec. 34	"	"	Norman Norton	10/54	58	20	---	I	64860	4.2	2922	446	49	483	1216	220	0	508	--	44.3	5.8	C4-S2
Sec. 35	Thatcher	"	Willis Dailey	9/54	70	20	---	I	64696	2.5	1721	138	31	402	620	140	0	390	--	64.8	8.0	C4-S2
Sec. 35	"	"	"	11/53	70	---	---	I	63420	3.2	2214	203	8	546	784	270	0	403	--	68.7	8.2	C4-S2
Sec. 36	"	"	Smithville Canal Co.	11/59	2600	Artesian		I	74527	7.8	4981	90	15	1769	2456	612	0	39	0	93.1	:::	:::
Sec. 36	"	"	Grant Morris	3/61	58	30	Canal Well	I	737-W	2.5	1448	74	33	379	470	250	5	261	--	72.0	9.3	C4-S3
Sec. 36	"	"	"	3/61	74	44	Highway "	I	736-W	2.4	1363	56	23	388	449	250	4	217	--	78.3	11.0	C4-S3
Sec. 36	"	"	Cal Kempton	3/61	40	30	---	I	727-W	3.2	1955	179	45	397	543	323	0	468	--	57.6	6.9	C4-S2
T.6S., R.26E.																						
Sec. 18	Safford	"	Leonard Russell	8/62	280	15	---	IDS	80845	0.4	252	8	4	59	30	32	0	119	0	78.0	4.4	C2-S1
T.6S., R.30E.																						
Sec. 32	Duncan	Greenlee	N. J. Scott	9/62	55	42	---	I-D	81026	0.7	395	60	14	28	8	102	0	180	3	22.4	0.7	C2-S1
T.7S., R.4E.																						
Sec. 1	Casa Grande	Pinal	L. J. Russell	4/56	640	---	---	I	302-W	0.4	309	36	6	41	36	T	0	190	--	43.7	1.6	C2-S1
Sec. 2	"	"	Russell & Goff	4/56	480	---	---	I	301-W	0.5	337	40	6	46	40	10	0	195	--	45.0	1.8	C2-S1
Sec. 3	"	"	L. J. Russell	8/56	260	---	---	I	353-W	0.7	460	32	9	94	50	112	0	159	4	64.0	3.8	C2-S1
Sec. 3	"	"	"	8/56	260	---	---	I	352-W	0.7	476	44	15	122	52	60	0	183	25	61.0	4.1	C2-S1
Sec. 6	"	"	B. Jameson & D. E. Dickson	6/55	470	312	---	I	214-W	1.1	786	15	5	230	140	130	T	266	--	90.0	13.0	C3-S3
Sec. 6	"	"	Ray Wolf, SWW Farms	6/52	470	246	---	I	C3528	1.0	719	15	11	196	122	130	0	234	11	83.8	9.5	C3-S2
Sec. 11	"	"	Harlan Russell	4/50	502	138	---	I	C1774	0.6	437	30	8	86	38	60	0	210	5	63.4	3.5	C2-S1
Sec. 11	"	"	"	6/52	760	164	1	I	C3493	0.6	439	45	11	73	46	70	0	183	11	50.1	2.5	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.7S., R.4E.																						
Sec. 11	Casa Grande	Pinal	Harlan Russell	6/52	502	164	2	I	C3494	0.6	400	30	11	70	42	50	0	190	7	55.8	3.0	C2-S1
Sec. 12	"	"	J. Brugh	6/55	740	233	---	I	213-W	0.8	525	48	6	103	78	105	0	185	--	60.0	3.6	C2-S1
Sec. 15	"	"	W. T. Golston	2/51	900	160	---	IDS	60246	1.2	904	15	11	255	144	160	0	317	--	87.0	12.5	C3-S3
Sec. 17	Stanfield	"	Arden Taylor	5/60	1000	400	Taylor#1	I	76158	1.3	822	40	16	204	190	162	0	171	39	72.9	6.9	C3-S2
Sec. 17	"	"	"	5/60	1000	400	Taylor#2	I	76159	1.1	746	33	15	183	148	159	0	190	27	73.5	6.5	C3-S2
Sec. 18	"	"	George Seale	4/60	500	300	---	I	75878	1.2	802	47	19	183	176	163	0	171	43	67.0	5.7	C3-S2
Sec. 22	Cocklebur	"	George Jackson	7/56	250	---	---	I	336-W	1.1	861	12	11	246	160	127	0	305	--	87.0	12.1	C3-S3
Sec. 22	"	"	"	7/56	250	---	---	I	337-W	1.3	908	12	6	334	116	160	24	256	--	92.0	20.0	C3-S4
Sec. 22	"	"	"	8/56	250	---	---	I	356-W	1.2	871	17	9	246	160	112	0	327	28	88.0	12.0	C3-S3
Sec. 22	"	"	"	8/56	250	---	---	I	357-W	1.2	821	17	9	230	140	120	0	305	33	87.0	11.4	C3-S3
Sec. 25	"	"	M. C. Cash	12/58	600	---	---	I	72313	0.8	565	68	13	81	83	105	0	215	--	44.0	2.4	C3-S1
Sec. 25	"	"	Irene Waugh	6/56	350	---	2	I	325-W	0.5	352	28	7	62	48	T	0	207	--	57.6	2.7	C2-S1
Sec. 25	"	"	"	6/56	350	---	1	I	324-W	0.4	288	28	7	46	48	T	0	159	--	50.0	2.0	C2-S1
Sec. 26	"	"	C. E. Williams	3/51	650	---	1	I	C2518	1.5	1019	23	8	290	182	160	0	342	14	87.5	15.0	C3-S3
Sec. 26	"	"	"	3/51	850	---	2	I	C2519	1.1	797	23	4	221	124	120	0	295	10	85.8	11.3	C3-S3
Sec. 26	"	"	L. & S. Farms	7/58	---	---	---	I	508-W	1.3	840	17	10	235	156	110	0	234	--	86.0	12.0	C3-S3
T.7S., R.5E.																						
Sec. 1	Casa Grande	"	Henry Kochsmeir	6/53	54	45	---	I-D	62971	3.2	2274	157	7	583	516	600	0	410	--	75.0	12.5	C4-S3
Sec. 6	"	"	C. J. Wilson	8/56	275	---	---	---	344-W	0.7	476	44	15	122	52	60	0	183	25	61.0	4.1	C2-S1
Sec. 32	Chuichu	"	Walt Wilbur	9/54	---	---	---	I	64735	0.6	390	12	2	101	46	90	0	139	--	85.2	7.1	C2-S2
T.7S., R.6E.																						
Sec. 1	Arizola	"	W. C. Pate	5/57	780	96	---	I	68720	0.6	419	35	4	94	74	90	0	122	--	57.0	4.0	C2-S1
Sec. 1	"	"	"	5/57	780	96	---	I	68721	0.5	347	31	7	96	76	105	0	122	--	66.1	4.2	C2-S1
Sec. 1	"	"	San Carlos Irrigation	8/63	896	138	91	I	83025	0.7	419	43	6	75	61	79	0	151	4	55.4	3.0	C2-S1
Sec. 2	"	"	J. K. Hennes	2/62	560	252	---	I-D	80024	1.0	794	94	13	138	151	210	0	166	21	56.2	3.5	C3-S1
Sec. 3	"	"	J. A. Fearn	5/53	300	70	1	I	C4218	3.7	2573	375	53	401	680	840	0	200	24	43.0	5.1	C4-S2
Sec. 3	"	"	J. E. Lawsen	6/57	365	200	---	I	68746	4.0	2782	367	62	467	730	900	0	256	--	46.4	5.9	C4-S2
Sec. 4	Casa Grande	"	J. A. Fearn	3/56	200	100	---	I	286-W	2.5	1751	211	58	292	520	560	0	110	--	45.0	4.5	C4-S2
Sec. 5	"	"	Victor Edman	8/54	120	80	---	IDS	64682	3.2	2264	398	19	354	816	560	0	117	--	41.7	4.7	C4-S2
Sec. 6	"	"	Rex C. Gladden	6/50	100	---	---	I-D	C2015	1.2	852	53	8	206	130	200	10	234	11	73.0	6.9	C3-S2
Sec. 6	"	"	Henry Kochsmeier	6/51	312	38	---	IDS	60900	4.0	2771	413	8	552	800	670	0	327	4	52.9	7.4	C4-S3
Sec. 9	"	"	L. W. Kauffroath	5/61	400	225	---	I-D	78243	0.5	320	12	9	68	28	59	0	139	5	68.8	3.6	C2-S1
Sec. 12	"	"	Rex Gladden	7/60	560	250	---	I	663-W	0.5	334	18	5	76	36	41	0	122	--	71.7	4.0	C2-S1
Sec. 21	"	"	C. S. McNatt	6/50	400	80	---	I-S	C2014	1.5	1016	135	19	160	202	300	0	176	24	45.0	3.3	C3-S1
Sec. 28	Stanfield	"	Walter & William Isom	4/59	550	240	2	I	583-W	0.7	427	19	3	112	69	100	0	124	--	80.0	6.3	C2-S1
Sec. 29	Casa Grande	"	J. F. Winchester	5/52	1000	300	---	I	61971	0.5	382	53	8	46	34	68	0	173	--	37.6	1.7	C2-S1
Sec. 32	"	"	W. H. Wilbur	2/59	---	---	---	I	540-W	0.5	373	9	1	104	28	70	0	156	T	90.0	9.2	C2-S1
Sec. 34	"	"	M & W Farms	9/58	450	138	MW#1	I	518-W	2.3	1729	152	25	393	443	560	0	156	32	64.0	7.8	C4-S2
Sec. 34	"	"	Walter & William Isom	4/59	700	230	12	I	580-W	0.5	325	15	1	80	22	65	0	142	--	81.0	5.3	C2-S1
Sec. 34	"	"	"	4/59	750	230	---	I	582-W	0.6	377	11	1	108	67	75	0	115	--	88.0	8.1	C2-S2
Sec. 35	"	"	"	4/59	1000	225	1	I	578-W	0.5	406	3	0	97	28	70	0	129	--	97.0	18.0	C2-S3
Sec. 35	"	"	"	4/59	696	225	2	I	579-W	0.6	377	2	3	110	38	90	0	134	--	93.0	11.0	C2-S2
T.7S., R.7E.																						
Sec. 1	Arizola	"	G. W. Kimberline	6/62	400	300	---	I-D	80636	0.9	532	88	12	61	140	69	0	156	6	32.8	1.6	C3-S1
Sec. 3	"	"	C. J. Newmeyer	2/53	445	---	---	I-D	62636	0.5	371	38	8	64	58	76	0	127	--	52.0	2.5	C2-S1
Sec. 3	"	"	"	2/53	380	---	---	I-D	62638	0.8	523	75	19	57	84	119	0	171	--	31.8	1.5	C2-S1
Sec. 4	"	"	P. E. Carron	7/57	415	190	---	IDS	68885	0.5	381	31	7	74	60	55	T	154	--	60.1	3.2	C2-S1
Sec. 5	"	"	C. R. McGee	3/50	400	220	---	I-D	C1769	1.0	720	120	19	78	188	100	0	188	27	30.9	1.8	C3-S1
Sec. 5	"	"	"	11/54	420	200	---	I	88-W	1.0	703	206	0	2	140	140	0	215	--	1.0	0.4	C3-S1
Sec. 8	"	"	L. C. Gladden	3/55	360	130	---	I	148-W	0.7	453	75	4	55	34	82	0	207	--	38.0	1.8	C2-S1
Sec. 8	"	"	"	3/55	550	130	---	I	149-W	0.6	390	66	4	28	38	75	T	183	--	27.0	0.7	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.7S., R.7E.																						
Sec. 10	Arizola	Pinal	C. J. Newmeyer	2/53	460	---	---	I-D	62639	0.6	394	52	15	46	68	81	0	132	--	34.3	1.5	C2-S1
Sec. 10	"	"	Marcus Vanderslice	4/55	940	240	---	I	180-W	1.0	687	36	7	170	208	105	0	161	--	76.0	6.8	C3-S2
Sec. 12	"	"	R. C. Gladden	4/55	660	124	---	I	192-W	0.6	426	17	6	106	48	112	T	137	--	78.0	5.6	C2-S1
Sec. 23	Toltec	"	F. Hale	4/55	650	---	---	I	173-W	0.6	412	42	12	60	34	88	0	176	--	46.0	2.1	C2-S1
Sec. 27	"	"	Fred Walker	5/50	---	---	---	I-D	C1852	2.2	1561	375	41	69	502	330	0	185	59	11.9	0.9	C3-S1
Sec. 34	"	"	Armstrong & Holliday	3/55	800	225	1	I	158-W	0.5	336	38	0	58	24	62	0	62	--	57.4	2.6	C2-S1
T.7S., R.8E.																						
Sec. 1	Casa Grande	"	P. J. Foster	4/59	800	400	---	I	72929	1.5	1059	109	17	232	412	130	0	134	25	59.5	5.5	C3-S1
Sec. 20	"	"	C. G. Clonts	3/57	---	---	---	---	68323	0.5	351	36	8	51	28	45	0	183	--	47.3	2.0	C2-S1
Sec. 26	"	"	P. J. Foster	4/59	1100	400	---	I	72932	0.5	324	38	6	46	30	40	0	161	3	45.0	1.9	C2-S1
Sec. 27	Coolidge	"	Robert Cockrill	4/59	1165	360	---	I	72960	1.0	667	36	4	186	234	50	0	154	3	79.0	7.9	C3-S2
Sec. 27	"	"	"	4/59	1030	400	---	I	72961	0.7	454	33	4	105	109	40	0	159	4	70.0	4.5	C2-S1
Sec. 27	"	"	"	8/58	---	---	---	I	71495	0.6	399	71	11	31	75	50	0	161	--	23.2	0.9	C2-S1
Sec. 28	"	"	"	4/59	1100	380	---	I	72962	0.8	541	30	3	146	170	35	0	154	3	78.0	6.7	C3-S2
Sec. 28	"	"	"	4/59	1135	380	---	I	72963	1.8	1256	63	7	381	568	80	0	151	6	82.0	12.2	C3-S3
Sec. 29	Eloy	"	"	7/62	800	450	CT2	I	80750	2.2	1204	75	7	351	566	62	0	139	4	77.9	10.2	C3-S3
Sec. 29	"	"	"	7/62	800	450	CT1	I	80751	2.2	1208	75	7	352	566	67	0	137	4	78.0	10.3	C3-S3
Sec. 29	"	"	"	7/62	800	450	CS2	I	80753	2.2	1185	75	7	346	560	83	0	110	4	77.6	10.1	C3-S3
Sec. 29	"	"	"	7/62	800	450	CV2	I	80755	2.3	1210	76	6	354	572	63	0	134	5	78.2	10.3	C4-S3
Sec. 30	"	"	P. J. Foster	4/59	800	400	---	I	72929	1.5	1059	109	17	232	412	130	0	134	25	60.0	0.7	C3-S1
SW¼,SE¼ Sec. 30	"	"	"	4/59	800	400	---	I	72930	0.6	427	59	10	53	65	75	0	159	6	38.0	1.7	C2-S1
Sec. 31	"	"	Gus Battaglia	2/59	---	---	---	I	72480	0.7	521	87	12	54	93	120	0	142	13	30.6	1.4	C2-S1
Sec. 33	"	"	William Elliott	7/52	---	---	---	I	62078	0.6	393	60	4	47	26	68	10	178	4	37.9	1.7	C2-S1
Sec. 34	"	"	A. B. Houser	4/52	570	184	---	I	C3355	0.4	288	38	8	30	18	20	0	171	3	33.7	1.3	C2-S1
Sec. 36	"	"	Farmers Investment Co.	3/62	800	300	---	I	80084	0.6	404	42	9	66	59	72	0	151	5	49.7	2.3	C2-S1
T.7S., R.16E.																						
SW¼ Sec. 10	Hayden	"	Sam Black	8/57	---	---	---	---	69068	1.6	1125	109	14	209	50	475	0	268	--	57.8	5.0	C3-S2
T.7S., R.20E.																						
Sec. 21	Klondyke	Graham	N. O. Weathersby	3/60	150	65	---	I-S	636-W	0.7	423	4	4	120	28	110	6	151	--	90.6	10.2	C2-S2
Sec. 21	"	"	"	3/60	135	55	---	I-S	637-W	0.4	250	37	9	15	8	15	0	166	--	21.0	0.5	C2-S1
T.7S., R.23E.																						
Sec. 1	Pima	"	Dale Bigler	4/61	---	---	---	I	746-W	0.7	405	2	1	140	112	88	16	46	--	97.2	30.0	C2-S4
Sec. 2	"	"	Earl Long	4/56	80	Artesian		---	66746	2.0	1369	76	4	403	504	260	0	122	--	81.0	12.1	C3-S3
Sec. 2	"	"	"	4/56	80	Artesian		---	66747	2.3	1593	21	1	556	604	350	1	49	--	95.5	30.0	C4-S4
T.7S., R.24E.																						
Sec. 3	"	"	Joe Webb	7/55	280	100	---	IDS	66036	0.7	482	T	0	150	48	45	19	220	--	100.0	0.0	:::
Sec. 4	"	"	Mrs. M. Rhoads	6/58	585	Artesian		IDS	71142	2.8	1969	33	22	646	733	472	0	63	--	88.9	21.0	C4-S4
Sec. 14	"	"	W. M. Webster	6/62	63	9	---	IDS	80572	0.5	437	53	14	48	20	55	5	244	0	35.3	4.2	C2-S1
Sec. 14	"	"	Leo Cluff	7/59	---	---	---	---	597-W	4.7	2938	34	1	1054	1244	560	6	39	--	96.0	:::	:::
Sec. 14	"	"	Eldon L. Smith	1/53	400	Artesian		I	C3968	2.8	1971	8	2	706	698	450	14	93	0	98.3	:::	:::
T.7S., R.25E.																						
Townsite	Thatcher	"	L. Jones	10/54	---	---	---	I	64866	1.3	908	87	21	179	250	115	0	256	--	56.1	4.4	C3-S1
SW¼,SE¼ Sec. 1	"	"	LaVon Johnston	10/54	60	3	---	I	64861	1.2	825	80	19	163	248	100	0	215	--	56.0	4.3	C3-S1
Sec. 2	"	"	Donald A. Foote	9/58	2100	Artesian		I	71803	1.9	1299	114	8	283	67	744	0	83	--	65.9	7.0	C3-S2
Sec. 2	"	"	Dennis Layton	10/54	84	43	---	I	64858	2.7	1889	228	50	322	646	160	0	483	--	47.4	8.7	C4-S3
Sec. 2	"	"	E. K. Roseberry	10/54	---	---	---	I	64880	1.3	933	86	25	179	260	95	0	288	--	55.0	4.3	C3-S1
Sec. 2	"	"	W. H. VanOrder	4/61	70	40	---	I-D	7470W	2.6	1879	58	38	517	541	310	0	415	--	79.0	13.0	C4-S3
Sec. 7	Central	"	Eldon L. Smith	2/54	1070	Artesian		I-S	63748	12.8	9062	652	15	2783	5008	555	0	49	--	78.1	:::	:::
Sec. 10	Thatcher	"	Ned Dalez	9/54	70	40	---	I	64871	2.0	1374	96	39	308	442	140	0	349	--	62.5	8.3	C3-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
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Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC x 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.7S., R.25E.																						
Sec. 11	Thatcher	Graham	Bob Kelley	10/54	100	---	---	I	64877	2.9	2019	164	27	483	726	160	0	459	--	66.8	8.8	C4-S3
Sec. 11	"	"	Jim Kelley	10/54	60	40	---	I	64878	2.9	2002	202	25	437	722	150	0	466	--	60.9	7.7	C4-S2
Sec. 11	"	"	D. Householder	10/54	118	80	---	I	64879	2.7	1877	120	101	368	696	170	0	422	--	52.8	6.0	C4-S2
Sec. 12	Safford	"	Enos Howard	10/54	---	---	---	I	64862	3.2	2211	138	57	529	782	200	0	505	--	66.5	0.9	C4-S1
Sec. 12	Thatcher	"	Nathan Motes	9/54	118	91	---	IDS	64756	2.7	1890	212	70	306	724	130	0	447	--	44.8	4.6	C4-S2
Sec. 12	Safford	"	Bert Allred	9/54	96	30	---	I	64691	2.5	2507	231	31	569	830	380	0	466	--	63.1	9.1	C4-S3
Sec. 13	Thatcher	"	Melvin Wattson	10/54	---	---	---	I	64865	3.6	2485	107	19	695	930	200	0	534	--	81.3	16.0	C4-S4
T.7S., R.26E.																						
Sec. 5	Safford	"	Paul Merrell	11/58	200	37	---	I	72171	23.1	16192	185	64	5879	8275	1740	0	49	--	94.6	:::	:::
Sec. 6	"	"	Sol Resnick	12/59	---	---	---	---	74633	5.2	3549	244	63	878	1184	633	0	547	--	70.5	:::	:::
Sec. 7	"	"	H. E. Hooper	11/53	82	---	---	I	63419	3.6	2523	188	8	659	792	398	0	478	--	74.0	10.3	C4-S3
Sec. 7	"	"	"	9/54	82	22	---	I	64692	3.3	2299	120	41	600	734	350	0	454	--	73.5	12.1	C4-S3
Sec. 8	"	"	Bob Angle	4/54	212	90	---	IDS	64174	1.1	740	53	8	182	196	150	0	151	--	70.4	6.1	C3-S2
Sec. 8	"	"	J. C. John	10/59	---	---	---	I	74312	3.5	2468	250	55	499	844	320	0	500	--	56.0	7.5	C4-S2
Sec. 9	"	"	Steve Loya	10/54	---	---	---	I	64857	2.9	2000	245	54	345	732	165	0	459	--	47.3	5.3	C4-S2
Sec. 13	"	"	Big Ranch	3/61	98	40	---	I	725-W	3.5	2444	198	49	620	836	345	0	396	--	65.9	10.4	C4-S3
Sec. 14	"	"	A. B. Claridge	3/61	98	40	---	I	721-W	3.6	2311	164	44	556	755	380	2	410	--	67.2	10.0	C4-S3
Sec. 14	"	"	Lonestar	3/61	80	8	---	I	722-W	2.5	1577	193	43	262	485	258	0	336	--	46.4	4.2	C4-S2
Sec. 14	"	"	Alf Claridge	11/53	70	---	---	I	63417	2.9	1571	150	8	362	452	272	0	327	--	65.8	2.5	C4-S1
Sec. 16	"	"	Safford Experiment Farm	2/62	106	---	---	I	80073	4.3	3081	96	33	899	903	533	0	576	41	84.0	:::	:::
Sec. 17	"	"	LaVer Reed	2/57	75	60	---	I-S	68103	2.2	1520	59	33	419	520	230	0	268	--	76.2	11.0	C3-S3
Sec. 17	"	"	Grant Curtis	4/54	100	60	---	I-D	64046	3.8	2648	308	8	593	1000	292	0	446	--	61.6	9.1	C4-S3
Sec. 21	"	"	N. J. Welker	7/53	110	80	---	I	63008	3.9	2702	308	7	616	998	392	0	381	--	62.6	9.5	C4-S3
SE¼,NE¼ Sec. 21	"	"	R. Montierth	9/57	85	70	---	I	71810	4.6	3211	208	46	814	965	680	0	498	--	71.4	13.1	C4-S4
SW½,NW¼ Sec. 22	"	"	Safford Experiment Farm	8/54	98	---	Well	I	64628	5.0	3534	210	11	1057	1120	600	0	534	--	80.1	:::	:::
Sec. 22	"	"	"	1/56	98	---	---	I	66501	4.5	3124	110	18	950	1080	380	0	586	--	85.0	:::	:::
Sec. 22	"	"	"	6/57	98	---	---	I	68795	5.7	3955	116	31	1217	1280	750	0	561	--	85.0	:::	:::
Sec. 22	"	"	"	9/58	98	---	---	I	71632	5.3	3685	121	33	1125	1346	540	0	520	--	84.9	:::	:::
Sec. 22	"	"	"	5/59	98	---	---	I	73163	5.3	3701	126	36	1110	1277	600	0	532	--	83.8	:::	:::
Sec. 22	"	"	"	11/59	98	---	---	I	74616	4.7	3268	115	31	970	1104	490	0	527	--	83.6	:::	:::
Sec. 22	"	"	"	4/60	98	---	---	I	75879	4.8	3334	156	41	923	1100	550	0	527	--	78.1	:::	:::
Sec. 22	"	"	"	6/60	98	---	Well	I	76595	5.5	3877	248	53	845	1152	563	0	537	29	68.7	:::	:::
Sec. 22	"	"	"	1/62	106	75	Well	I	79974	4.5	3165	94	36	930	950	540	0	585	30	86.0	:::	:::
Sec. 22	"	"	"	11/59	---	---	River	I	74617	0.8	547	60	15	87	120	63	0	202	--	46.1	2.7	C3-S1
Sec. 22	"	"	"	8/61	---	---	River	I	78885	1.0	691	44	11	158	146	98	0	234	--	68.9	5.5	C3-S2
Sec. 22	"	"	"	6/62	---	---	Well	I	80662	4.6	3298	256	48	777	1012	510	0	649	46	66.8	11.7	C4-S3
Sec. 22	"	"	"	6/62	---	---	River	I	80666	1.6	1112	70	17	273	320	155	0	273	4	70.7	7.6	C3-S2
Sec. 22	"	"	"	8/62	---	---	River	I	81040	2.3	1610	113	33	374	462	305	0	305	--	66.0	7.9	C4-S2
Sec. 22	"	"	"	10/62	---	---	River	I	81121	0.8	455	54	13	69	112	47	0	159	1	44.2	2.3	C2-S1
Sec. 22	"	"	"	3/63	---	---	River	I	81934	0.7	415	46	12	32	75	60	T	190	1	29.7	1.0	C2-S1
SW¼,NW¼ Sec. 22	"	"	A. Montierth	9/58	85	75	---	I	71808	4.2	2934	88	18	893	918	480	0	537	--	86.8	:::	:::
Sec. 22	"	"	Fred Escobedo	5/53	95	45	---	I	62855	3.2	2566	97	4	736	680	310	0	695	--	86.0	19.7	C4-S4
Sec. 24	Solomon	"	L. Claridge	9/54	85	48	---	I	64693	2.8	1981	127	32	480	606	350	0	386	--	69.9	13.0	C4-S4
Sec. 24	"	"	"	11/53	85	---	---	I	63416	2.5	1781	158	8	427	518	306	0	364	--	68.4	3.8	C4-S1
Sec. 24	"	"	Cal Kempton	3/61	115	80	---	I	718-W	0.6	356	47	12	37	31	66	2	161	--	32.6	1.1	C2-S1
Sec. 29	Safford	"	Delbert Harris	2/53	116	76	---	I-D	62669	0.3	195	22	4	25	12	10	0	122	--	43.2	1.3	C2-S1
Sec. 30	"	"	Carl Morris	4/54	200	10	---	I	64036	3.9	2745	90	4	932	1280	388	0	51	--	89.3	:::	:::
Sec. 30	"	"	"	4/54	200	10	---	I	64037	1.8	1231	68	4	345	308	360	0	146	--	80.0	11.0	C3-S3

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	$EC \times 10^3$ at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.7S., R.26E.																						
Sec. 31	Safford	Graham	Smithson	2/56	---	---	---	I	273-W	2.9	2017	66	5	695	1020	180	22	29	--	89.0	22.0	C4-S4
Sec. 31	"	"	"	2/56	---	---	---	I	274-W	2.7	1906	57	3	600	980	200	5	61	--	90.0	20.0	C4-S4
Sec. 31	"	"	Glenn Barry	1/62	120	70	---	IDS	79608	7.0	6613	320	137	1727	1525	2610	0	293	1	73.5	:::	:::
SE¼,SW¼ Sec. 33	"	"	H. Russell	11/61	---	75	---	IDS	79191	3.4	2735	156	36	674	615	865	0	283	6	73.2	13.0	C4-S4
Sec. 33	"	"	D. Cluff	4/59	---	---	---	I	572-W	2.6	1531	30	4	506	514	340	0	137	--	92.3	23.0	C4-S4
T.7S., R.27E.																						
Sec. 1	Solomon	"	San Jose Dam	4/62	---	---	---	---	798-W	0.4	310	30	10	47	36	77	7	103	--	46.6	2.5	C2-S1
Sec. 1	"	"	San Jose Canal	5/60	400	150	Pump#2	I	647-W	3.6	2472	59	14	785	796	540	0	278	--	89.3	:::	:::
Sec. 1	"	"	M. Larson	8/55	130	---	---	I	231-W	1.3	894	4	0	294	230	110	0	256	--	98.0	:::	:::
Sec. 1	"	"	"	8/55	130	---	North	I	230-W	1.6	1122	6	0	370	260	230	0	256	--	98.0	:::	:::
Sec. 3	"	"	Dan Curtis	3/56	700	20	---	IDS	66749	0.8	568	82	18	51	46	90	0	281	--	28.4	1.4	C3-S1
Sec. 8	"	"	Otto Bowman	10/60	75	35	---	I	694-W	1.6	1108	48	18	300	288	293	5	156	--	77.0	9.5	C3-S2
Sec. 10	"	"	Roy Gardner	6/60	60	24	---	I	653-W	2.1	1427	101	28	318	366	285	0	329	--	67.4	7.0	C3-S2
Sec. 10	"	"	Don Curtis	6/60	700	30	---	I	652-W	1.8	1225	8	3	396	236	342	10	230	--	96.4	31.0	C3-S4
Sec. 17	"	"	S. L. Claridge	3/61	85	70	---	I	726-W	2.2	1372	146	40	228	334	190	0	190	--	48.4	4.3	C3-S2
Sec. 32	"	"	R. Ellsworth	2/57	25	20	---	IDS	68106	2.1	1502	8	5	524	500	270	0	195	--	96.7	:::	:::
T.7S., R.31E.																						
Sec. 4	Sheldon	"	W. E. Barney	4/62	170	90	---	I	810-W	0.8	561	47	17	100	52	208	3	134	--	53.7	3.1	C3-S1
Sec. 4	"	"	"	4/62	155	70	---	I	809-W	1.3	933	141	25	105	153	233	0	276	--	33.5	2.1	C3-S1
Sec. 4	"	"	H. P. Carpenter	4/62	76	35	---	I	806-W	0.7	525	64	8	73	34	89	0	251	6	52.6	2.5	C2-S1
Sec. 4	"	"	Susan Moore	5/61	150	100	---	I-D	759-W	0.4	348	17	6	77	28	71	0	149	--	71.2	4.0	C2-S1
Sec. 5	"	"	W. D. McKeon	7/56	62	35	2	I	341-W	0.7	455	26	20	71	30	40	0	268	--	51.0	2.5	C2-S1
Sec. 8	"	"	"	4/62	70	30	---	I	808-W	0.5	394	45	11	49	22	60	0	207	--	40.2	1.6	C2-S1
Sec. 9	"	"	"	4/62	65	20	---	I	807-W	0.7	561	66	14	71	36	89	0	285	--	40.7	2.0	C2-S1
Sec. 9	"	"	"	7/56	68	30	1	I	340-W	1.1	742	34	35	127	58	110	0	378	--	55.0	3.6	C3-S1
Sec. 16	"	"	E. Harrington	4/55	107	34	---	I	193-W	0.7	484	50	12	71	34	97	0	220	--	48.0	2.3	C2-S1
Sec. 33	"	"	H. Gandolpe	5/57	150	50	---	I	426-W	0.7	483	36	7	94	40	90	0	215	--	63.2	3.8	C2-S1
T.7S., R.32E.																						
NW¼,NE¼ Sec. 21	Duncan	Greenlee	David Edson	10/63	110	90	Sheldon	D	83999	0.7	454	66	22	34	69	68	0	195	--	22.2	1.0	C2-S1
T.8S., R.5E.																						
Sec. 35	Casa Grande	Pinal	E. R. Collard	4/55	262	135	---	---	65853	2.8	1967	14	3	616	320	370	43	583	--	96.5	39.0	:::
T.8S., R.6E.																						
Sec. 9	"	"	L. W. Kauffroath	5/62	850	---	1	I-D	80503	0.6	372	15	6	87	36	63	0	161	4	75.3	4.8	C2-S1
Sec. 9	"	"	"	5/61	400	225	---	I-D	78243	0.5	320	12	9	68	28	59	0	139	5	68.8	3.6	C2-S1
Sec. 11	"	"	Jack Crain	7/58	800	300	2West	I	71254	0.5	328	14	2	80	26	64	0	142	--	80.0	0.6	C2-S1
Sec. 11	"	"	"	7/58	800	300	House	I	71255	0.4	303	10	T	85	24	44	T	139	--	88.0	7.5	C2-S2
Sec. 14	"	"	Bellevista Farms	5/60	1000	350	N.#1	I	76115	0.5	306	12	2	79	30	75	0	105	3	82.0	5.8	C2-S1
Sec. 14	"	"	"	5/60	1000	350	N.#2	I	76116	0.5	362	30	5	68	24	78	0	154	3	60.9	3.0	C2-S1
Sec. 22	"	"	"	5/60	1000	350	S.#7	I	76120	0.5	338	22	5	70	26	68	0	144	3	67.0	3.5	C2-S1
Sec. 23	"	"	"	5/60	1000	350	C.#4	I	76117	0.6	410	42	8	65	36	76	0	176	7	50.6	2.3	C2-S1
Sec. 25	"	"	"	5/60	1000	350	S.#8	I	76121	0.5	372	34	7	63	24	71	0	171	2	54.5	2.7	C2-S1
Sec. 26	"	"	C T H Ranch	10/56	1500	150	---	I	366-W	0.5	313	20	4	69	48	T	0	171	--	68.0	3.7	C2-S1
Sec. 26	"	"	"	10/56	1500	150	---	I	367-W	0.5	325	21	6	64	48	T	0	181	5	62.0	3.0	C2-S1
Sec. 26	"	"	"	10/56	1500	150	---	I	368-W	0.4	303	14	8	60	36	T	0	181	4	63.0	3.2	C2-S1
Sec. 26	"	"	Al Francis, Jr.	-----	---	---	---	---	133-W	0.7	470	75	0	69	92	75	0	159	--	45.0	2.2	C2-S1
Sec. 27	"	"	Bellevista Farms	5/60	1000	350	S.#5	I	76118	0.5	316	8	1	87	32	68	0	117	3	88.7	7.8	C2-S2
Sec. 27	"	"	"	5/60	1000	350	S.#6	I	76119	0.5	348	22	4	75	30	68	0	146	3	69.7	4.0	C2-S1
T.8S., R.8E.																						
Sec. 28	Eloy	"	Polly Getzwiller	9/60	1500	274	---	I	681-W	0.5	363	13	5	90	38	59	6	149	3	78.8	5.0	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth	Static Level	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.8S., R.8E.																						
Sec. 33	Eloy	Pinal	Montezuma Farms	9/60	1200	274	---	I	679-W	0.4	332	11	4	83	24	58	6	144	--	80.3	5.4	C2-S1
Sec. 33	"	"	"	9/60	1700	274	---	I	680-W	1.8	1125	55	3	347	492	85	6	134	3	83.5	12.1	C3-S3
T.8S., R.9E.																						
Sec. 4	Picacho	"	Virgil Glenn	5/55	---	---	---	I	65897	0.7	453	41	7	83	36	105	0	181	--	57.8	3.2	C2-S1
Sec. 7	"	"	Farmers Investment Co.	1/63	1445	350	---	I-D	81811	1.7	924	32	4	295	396	75	0	122	1	86.8	13.0	C3-S3
Sec. 7	"	"	"	5/62	1100	300	---	I	80515	0.4	294	23	5	53	20	40	0	149	4	59.6	2.6	C2-S1
Sec. 7	"	"	"	3/62	1100	300	---	I	80081	0.5	313	26	6	54	24	54	0	146	3	55.6	2.5	C2-S1
Sec. 7	"	"	Coury Brothers	9/55	470	---	2	I	253-W	0.5	326	15	13	60	32	35	0	171	--	59.0	2.8	C2-S1
Sec. 9	"	"	Virgil Glenn	5/55	---	---	---	I	65896	0.6	407	31	7	78	30	90	0	171	--	61.4	3.3	C2-S1
Sec. 16	"	"	Farmers Investment Co.	5/62	1500	300	2	I	80516	0.5	315	16	4	71	36	42	0	142	4	72.8	4.3	C2-S1
Sec. 18	"	"	"	5/62	1600	300	3	I	80517	0.5	309	13	4	73	36	42	0	139	2	76.0	4.3	C2-S1
Sec. 18	"	"	"	5/62	1600	300	3A	I	80518	0.7	485	57	4	81	36	162	0	142	3	52.4	2.7	C3-S1
Sec. 18	"	"	Coury Brothers	8/56	1433	320	---	I	369-W	0.4	283	17	9	51	40	T	0	161	5	58.0	1.3	C2-S1
Sec. 18	"	"	"	9/55	470	---	1	I	254-W	0.5	356	32	8	62	48	45	0	161	--	55.0	2.5	C2-S1
T.8S., R.12E.																						
Sec. 35	Florence	"	A. E. Ebling	3/56	200	---	---	---	66695	0.9	617	57	23	99	140	20	0	278	--	47.5	3.2	C3-S1
T.8S., R.17E.																						
Sec. 19	Mammoth	"	Bob Shuler	5/56	300	---	---	I	C6460	1.4	983	105	15	167	56	370	0	268	2	57.7	4.0	C3-S1
T.8S., R.21E.																						
Sec. 18	Aravaipa Valley	Graham	J. D. Williams	4/61	80	37	---	IDS	77976	0.4	283	32	13	23	8	12	0	193	2	27.2	0.9	C2-S1
Sec. 18	"	"	"	1/55	75	45	---	IDS	65302	0.4	304	33	9	39	28	T	0	195	--	41.6	1.5	C2-S1
T.8S., R.24E.																						
Sec. 7	Safford	"	A. N. Despain	3/51	650	Artesian		I-S	60521	2.7	1919	8	4	663	592	445	0	207	--	41.6	:::	:::
T.8S., R.25E.																						
Sec. 7	Thatcher	"	Safford Municipal Utilities	1/62	Frye Reservoirs			IDS	79818	0.1	77	6	4	11	6	26	0	24	0	43.2	0.7	C1-S1
T.8S., R.26E.																						
Sec. 2	Artesia	"	W. A. Pickard	4/61	136	22	---	IDS	77671	0.9	555	25	6	144	104	122	0	154	--	78.1	2.5	C3-S1
Sec. 4	Safford	"	Margaret Baldwin	2/59	---	Artesian		I-D	72567	1.9	1358	22	0	545	420	320	5	34	0	95.6	:::	:::
Sec. 4	"	"	C. D. Humphries	9/61	14	---	---	I	777-W	7.5	5462	128	29	1705	1470	1450	0	680	--	89.4	:::	:::
Sec. 4	"	"	B. Morris	2/51	65	50	---	I	60150	2.9	2019	30	0	688	584	600	15	88	2	84.5	9.8	C4-S3
Sec. 6	"	"	Alvin Despain	2/51	1200	Artesian		I-S	60151	4.7	3273	68	0	1130	1224	752	12	73	--	93.5	:::	:::
Sec. 6	"	"	R. L. Brown	4/59	65	11	---	I-D	73080	5.0	3501	521	135	489	1400	720	0	215	21	36.5	:::	:::
Sec. 6	"	"	O. E. Ramsey	1/55	142	40	---	IDS	65408	2.0	1372	73	23	338	252	420	0	264	--	72.6	8.8	C3-S2
NE¼,NW¼ Sec. 7	"	"	H. C. Hunt	9/59	60	50	Spring	I-D	74236	3.8	2800	272	106	516	844	725	12	322	--	50.2	6.6	C4-S2
Sec. 7	"	"	Mrs. J. Aker	2/60	80	20	---	IDS	74981	1.0	639	26	5	174	115	142	0	173	0	81.5	8.1	C3-S2
Sec. 7	"	"	F. L. Copeland	10/59	203	182	North	I-D	74313	0.8	525	39	10	116	105	130	T	122	--	64.5	4.3	C3-S1
Sec. 7	"	"	"	10/59	336	316	West	I-D	74314	2.5	1821	259	64	247	506	550	0	195	--	37.0	3.5	C4-S1
Sec. 7	"	"	"	8/60	250	68	East	IDS	675-W	4.5	3349	456	104	512	985	970	0	322	--	41.6	5.7	C4-S2
Sec. 7	"	"	"	5/60	250	100	South	IDS	644-W	3.7	2988	398	125	408	848	950	0	259	--	37.0	4.6	C4-S2
SE¼,SE¼ Sec. 7	"	"	H. Burnett	1/57	70	60	---	I-D	67934	4.2	2963	332	92	506	712	1000	0	327	--	47.6	6.3	C4-S2
SW¼,SW¼ Sec. 8	"	"	M. H. Smithson	10/57	---	---	---	I-D	69431	1.7	1183	66	18	258	355	332	0	154	--	70.1	7.4	C3-S2
SW¼,SW¼ Sec. 8	"	"	"	10/57	---	---	---	I-D	69432	1.6	1115	23	19	297	380	257	0	134	--	82.6	13.5	C3-S2
Sec. 8	Solomon	"	Everett Smith	3/61	300	---	---	I-S	732-W	1.0	642	13	5	192	133	152	5	142	--	89.3	11.8	C3-S3
Sec. 8	"	"	W. J. White	2/61	60	30	---	I-S	714-W	4.1	2871	183	51	726	910	630	0	371	--	70.4	12.0	C4-S4
Sec. 9	"	"	Horace Baker	5/56	---	---	---	I	319-W	1.1	755	8	3	253	188	118	19	166	--	94.0	18.8	C3-S4
Sec. 17	"	"	C. E. Eaton	5/60	300	50	---	I-S	643-W	0.9	585	16	3	174	124	138	6	124	--	87.8	10.6	C3-S2

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECx10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.8S., R.26E.																						
Sec. 17	Safford	Graham	S. F. Baird	1/50	93	89	---	I-D	56573	0.4	292	38	4	92	18	T	T	139	--	53.6	3.8	C2-S1
Sec. 17	"	"	A. A. Dankworth	1/61	---	---	---	I-F*	706-W	6.0	3635	89	22	1216	1528	713	6	61	--	89.4	:::	:::
Sec. 17	"	"	"	8/60	---	Artesian		I	665-W	6.9	4336	120	15	1455	1840	838	5	63	--	89.7	:::	:::
Sec. 17	"	"	"	7/60	1449	---	---	I	656-W	4.2	2532	25	6	896	992	535	10	78	--	95.8	:::	:::
Sec. 18	"	"	R. K. Greaves	4/54	200	Artesian		I	64171	2.3	1591	15	4	485	502	280	22	83	--	95.1	22.0	C4-S4
Sec. 18	"	"	"	5/53	65	---	---	I-D	62887	0.3	213	30	4	22	8	20	0	129	--	34.4	0.9	C2-S1
Sec. 18	"	"	"	5/53	1400	Artesian		I-D	62888	1.7	1205	30	0	407	474	188	12	85	--	86.1	20.2	C3-S4
Sec. 18	"	"	Nancy Lukats	10/61	150	100	---	IDS	79079	1.9	1208	22	18	370	407	288	0	93	1	80.3	14.0	C3-S3
Sec. 18	Swift Trail Jct.	"	G. Autry	10/60	102	---	---	I-S	686-W	0.5	348	40	11	41	8	85	0	163	--	37.9	1.3	C2-S1
SE¼,NE¼ Sec. 19	Safford	"	W. W. May	4/62	---	Artesian		I-D	80407	1.2	869	17	11	245	123	268	7	190	2	87.7	0.8	C3-S1
Sec. 20	"	"	H. R. Mack	9/58	450	30	---	I	71806	0.7	491	12	1	64	315	236	0	122	--	80.3	5.2	C2-S1
Sec. 20	"	"	J. A. Haralson	10/50	150	120	---	I-D	59514	0.8	586	15	11	160	120	117	0	161	--	80.8	7.6	C3-S2
Sec. 20	"	"	R. O. Lake	4/61	600	8	---	I-S	740-W	1.0	579	19	5	167	139	130	2	117	--	84.1	9.9	C3-S2
Sec. 20	"	"	"	4/61	845	---	---	I-S	741-W	2.0	1117	25	1	405	474	245	0	27	--	93.1	22.1	C3-S4
Sec. 28	"	"	Glen Payne	6/57	150	50	---	I-D	68743	0.8	524	29	8	131	120	90	0	146	--	72.9	5.5	C2-S1
Sec. 28	"	"	Mrs. Dorothy Roberts	1/58	---	Artesian		IDS	69928	1.3	905	21	6	271	202	248	0	156	--	88.3	13.6	C3-S3
Sec. 28	Stockton Wash	"	O. Mack	8/60	430	300	---	I	666-W	0.9	622	11	2	189	112	149	5	154	--	92.0	14.0	C3-S3
Sec. 28	"	"	R. O. Lake	4/61	600	10	---	I-S	742-W	1.5	880	13	1	293	263	215	2	93	--	94.6	6.0	C3-S2
Sec. 28	Artesia	"	T. G. Nelson	8/60	187	70	---	I	672-W	1.1	663	39	10	163	154	148	0	149	--	72.0	21.3	C3-S4
Sec. 29	Safford	"	F. L. Copeland	11/62	---	68	South	I-D	81245	0.6	378	49	12	46	71	42	0	154	4	36.8	1.6	C2-S1
Sec. 29	"	"	"	11/62	---	60	North	I-D	81244	0.9	598	47	14	126	141	125	0	142	3	61.0	4.0	C3-S1
Sec. 29	Artesia	"	Delbert Harris	6/60	175	75	---	I-D	651-W	1.6	916	15	2	296	236	250	0	117	--	92.7	18.5	C3-S4
Sec. 29	"	"	John Steiner	1/52	140	63	---	IDS	81826	0.6	425	14	4	113	51	105	5	132	1	82.7	6.8	C2-S2
SW¼,SW¼ Sec. 30	"	"	Delbert Harris	6/58	---	---	---	IDS	71144	3.0	2130	12	10	616	246	200	0	1044	--	94.8	32.0	C4-S4
Sec. 32	"	"	Frank Reed	11/61	60	23	---	IDS	79160	1.2	892	33	10	244	178	225	4	198	0	81.3	9.4	C3-S2
Sec. 32	"	"	Boyd Overton	4/61	200	15	---	IDS	77977	1.0	629	53	7	140	137	155	0	134	2	65.4	5.6	C3-S2
Sec. 32	"	"	Mr. Wands	8/59	---	---	---	I-S	73930	0.7	475	7	1	144	88	75	4	154	2	93.5	14.0	C2-S3
Sec. 32	"	"	W. A. Pickard	12/58	---	30	---	IDS	72303	1.0	689	41	5	200	99	160	T	176	--	77.9	8.0	C3-S2
Sec. 32	"	"	Fred Solomon	10/61	100	75	---	IDS	79078	1.2	851	41	9	220	174	188	0	218	T	77.4	7.8	C3-S2
Sec. 33	"	"	M. F. Meredith	4/51	600	100	---	I-S	60600	0.6	406	30	8	82	42	107	0	137	--	62.3	3.5	C2-S1
Sec. 33	"	"	R. Layton	8/60	610	12	School	I	667-W	1.4	835	9	3	269	180	253	4	117	--	94.4	20.0	C3-S4
T.8S., R.32E.																						
Sec. 3	Duncan	Greenlee	J. O'Dell	6/60	70	40	---	I-S	654-W	0.5	490	51	13	68	26	90	0	242	--	44.8	2.2	C2-S1
Sec. 3	"	"	Marvin Arnett	2/51	80	30	---	IDS	60240	1.0	691	83	0	113	30	107	0	358	--	54.1	3.4	C3-S1
Sec. 7	"	"	Andrew Jensen	9/53	60	50	---	IDS	63220	0.6	395	38	4	75	20	134	0	124	--	59.3	3.3	C2-S1
Sec. 13	"	"	Alvin Elmer	3/61	30	7	---	I	733-W	1.6	1032	36	30	242	125	305	6	288	--	71.2	7.3	C3-S2
Sec. 17	"	"	Gus Sanders	5/53	150	120	---	IDS	62891	0.5	338	15	4	76	18	58	T	163	--	75.3	4.5	C2-S1
Sec. 18	"	"	O. W. Claridge	1/53	60	20	---	IDS	62613	1.9	1316	172	4	221	156	375	0	385	--	51.8	4.5	C3-S2
Sec. 18	"	"	G. H. Cosper, Jr.	2/50	60	10	---	IDS	56630	1.5	1021	120	11	157	40	300	0	390	--	49.7	3.8	C3-S1
Sec. 18	"	"	Harold Stevens	2/50	80	20	---	IDS	56631	1.8	1226	158	8	195	94	393	0	376	--	49.7	4.0	C3-S1
NW¼,SE¼ Sec. 19	"	"	J. T. Rouse	9/50	39	23	---	I-D	59423	1.9	1338	135	11	253	104	437	-	395	--	58.5	5.7	C3-S2
NE¼,NE¼ Sec. 29	"	"	W. Lunt	2/53	75	60	---	IDS	62671	1.6	1099	90	4	230	52	342	0	378	--	67.4	6.5	C3-S2
Sec. 29	"	"	K. Claridge	3/55	Spring	---	---	I	65782	5.4	3758	58	45	990	354	415	0	1896	--	86.7	:::	:::
Sec. 35	"	"	T. Pugmire	6/56	60	25	---	I-D	67061	0.8	582	40	14	106	36	105	0	281	--	59.4	5.5	C3-S1
T.8S., R.32E.																						
Sec. 19	"	"	Mrs. Jack Ballard	2/53	75	30	---	IDS	62645	1.6	1141	127	11	195	86	342	0	378	--	53.9	4.5	C3-S1
Sec. 19	"	"	Glen Francom	3/50	80	12	---	IDS	57813	1.8	1222	113	0	225	98	375	7	373	--	66.2	6.6	C3-S2
Sec. 20	"	"	Spoon Estates	9/56	---	---	---	I	C6971	1.9	1321	115	23	237	92	300	0	537	17	57.4	5.3	C3-S2
Sec. 20	"	"	Eddie Fager	3/61	75	8	---	I	734-W	1.5	882	59	25	177	92	313	4	212	--	60.6	4.7	C3-S1

*Irrigation and Fish

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.8S., R.32E.																						
Sec. 20	Duncan	Greenlee	V. L. Crotts	8/60	80	50	---	I-D	668-W	1.6	1211	127	44	162	104	310	0	464	--	41.4	3.2	C3-S1
Sec. 20	"	"	Brigham Phelps	12/59	75	47	---	IDS	74713	8.5	6134	916	216	870	2420	1130	0	537	45	37.2	:::	:::
Sec. 20	"	"	Franklin Irrigation District	9/63	64	12	Edgar#1	I	83674	1.7	1394	139	23	236	106	340	0	542	8	53.6	4.9	C3-S2
Sec. 21	"	"	"	9/63	75	25	Crotts#2	I	83675	1.5	1254	126	23	206	94	300	0	488	17	52.2	4.4	C3-S1
Sec. 21	"	"	Frank Reed	4/60	78	60	---	I-D	75881	1.9	1512	127	25	294	136	475	0	429	26	60.3	6.3	C3-S2
Sec. 29	"	"	Lark Wilkins	3/61	50	25	---	I	717-W	1.8	1543	136	28	295	175	465	0	444	--	58.4	5.9	C3-S2
Sec. 29	"	"	Ruby Rock	10/50	40	20	---	I-D	59437	6.0	4170	127	0	1311	1094	1236	0	398	--	89.9	:::	:::
Sec. 32	"	"	Clyde Wilkins	4/51	149	25	---	IDS	60578	6.2	4357	150	4	1275	652	1468	29	805	--	87.6	:::	:::
Sec. 32	"	"	Amos Nasson	11/50	75	60	---	IDS	59774	1.4	963	157	0	240	38	150	0	376	--	57.0	5.4	C3-S2
Sec. 32	"	"	W. E. Barney	5/50	60	20	---	IDS	58820	0.7	484	45	11	76	36	70	0	244	--	51.1	2.6	C2-S1
Sec. 33	"	"	O. Bowman	7/56	72	35	---	I	338-W	2.4	1702	116	37	359	240	450	0	500	--	63.8	7.4	C4-S2
Sec. 33	"	"	"	7/56	80	40	---	I	339-W	6.9	4850	182	212	1123	960	2100	0	273	--	65.0	:::	:::
Sec. 33	"	"	Howard Arnett	3/51	70	30	---	IDS	60532	3.8	2690	113	19	700	122	1260	0	476	--	80.8	16.0	C4-S4
Sec. 33	"	"	Franklin Irrigation District	9/63	75	12	Richins#1	I	83676	1.8	1540	173	32	247	139	570	0	362	17	48.8	4.4	C3-S1
Sec. 33	"	"	"	9/63	65	15	Richins#2	I	83677	4.3	3711	243	90	808	477	1550	0	488	55	64.3	11.0	C4-S3
Sec. 34	"	"	J. V. Swallow	5/51	37	12	---	I-D	60747	0.5	326	75	8	2	18	30	0	193	--	97.7	0.1	C2-S1
T.9S., R.7E.																						
Sec. 2	Eloy	Pinal	Producer Agricultural Foundation Farm	3/59	528	250	1	I	560-W	0.6	446	52	9	63	32	90	0	200	--	45.0	2.1	C2-S1
Sec. 2	"	"	"	3/59	1080	260	3	I	562-W	0.6	410	50	8	56	30	88	0	178	--	44.0	1.8	C2-S1
Sec. 3	"	"	"	3/59	1000	270	2	I	561-W	0.6	401	43	7	61	22	80	0	188	--	49.0	2.3	C2-S1
Sec. 8	"	"	McCarthy & Hildebrand	6/55	1585	196	---	I	204-W	0.6	386	21	2	92	40	80	0	151	--	76.0	5.0	C2-S1
Sec. 14	"	"	E. Pretzer Jr.	7/55	540	280	---	I	229-W	0.7	505	53	9	81	50	90	0	220	--	52.0	2.6	C2-S1
Sec. 17	"	"	McCarthy & Hildebrand	6/55	1700	232	---	I	205-W	0.5	356	6	2	101	40	90	T	117	--	90.0	9.0	C2-S2
Sec. 24	"	"	E. Pretzer Jr.	6/55	944	207	---	I	228-W	0.7	504	61	10	76	70	80	0	207	--	46.0	2.3	C2-S1
Sec. 28-29	"	"	Sunset Farms	3/58	1000	400	1	I	70323	0.4	274	26	1	83	28	72	0	164	--	72.3	4.3	C2-S1
Sec. 28-29	"	"	"	3/58	1000	400	2	I	70324	0.5	348	22	2	77	28	60	0	159	--	72.5	4.2	C2-S1
Sec. 28-29	"	"	"	3/58	1000	400	3	I	70325	0.6	447	41	8	83	53	94	0	168	--	57.1	3.2	C2-S1
Sec. 28-29	"	"	"	3/58	1000	400	4	I	70326	0.8	541	43	12	101	61	148	0	176	--	58.3	3.4	C3-S1
Sec. 30	"	"	T. Willmoth	9/55	600	132	1	I	248-W	0.4	266	11	3	64	44	20	0	124	--	64.0	4.6	C2-S1
T.9S., R.8E.																						
Sec. 15	"	"	F. Lang	2/55	800	---	---	I	126-W	0.7	459	53	8	87	40	100	0	171	--	53.3	2.8	C2-S1
Sec. 26	"	"	Santa Cruz Farms	3/58	380	---	---	I	70288	0.7	472	46	12	74	55	85	0	200	--	49.5	2.6	C2-S1
Sec. 26	"	"	"	3/58	380	---	---	I	70289	0.6	398	44	16	44	28	73	0	193	--	35.1	1.6	C2-S1
Sec. 36	"	"	"	3/58	380	---	---	I	70290	0.6	400	44	11	51	26	70	0	198	--	41.7	1.9	C2-S1
T.9S., R.9E.																						
Sec. 31	Redrock	"	P. S. Thompson	4/55	600	220	---	I	185-W	0.7	500	40	30	67	80	100	0	183	--	39.0	1.8	C2-S1
Sec. 34	"	"	La Osa Cattle Co.	3/60	240	---	---	I	75716	0.6	423	58	9	49	32	84	0	151	40	36.9	1.7	C2-S1
T.9S., R.10E.																						
Sec. 18	"	"	Bud Antle, Inc.	7/61	1480	210	---	I	78452	0.4	263	6	2	75	22	52	7	93	1	87.5	6.8	C2-S1
Sec. 20	"	"	"	12/62	1365	---	R.R.#7	I	81377	0.6	300	12	1	78	16	110	2	78	3	83.3	6.0	C2-S1
Sec. 29	"	"	"	12/62	500	290	R.R.#3	I-D	81376	0.5	288	23	13	35	12	35	0	166	4	38.4	1.5	C2-S1
T.9S., R.26E.																						
Sec. 17	Swift Trail Jct.	Graham	Sam Baird	2/50	---	---	---	I	56629	1.9	1323	15	0	460	492	259	0	93	--	96.3	:::	:::
T.9S., R.31E.																						
Sec. 2	Duncan	Greenlee	L. A. Bonner	9/51	458	359	---	I	61206	1.4	993	45	8	253	112	282	0	293	--	79.0	9.0	C3-S2

Table 5 Continued
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T.9S., R.32E.																						
Sec. 4	Duncan	Greenlee	W. A. Chambers	1/51	87	30	---	IDS	60028	2.7	1914	23	0	581	50	914	10	332	--	95.6	:::	:::
Sec. 5	Franklin	"	Bill Huffman	1/60	60	40	---	IDS	74859	1.1	940	25	14	238	70	240	0	342	11	81.0	9.6	C3-S2
NE¼ Sec. 9	"	"	B. J. Duncan	9/60	55	50	---	I-D	77011	0.8	521	38	31	55	18	65	0	288	17	34.8	1.7	C3-S1
SE¼ Sec. 9	"	"	J. B. Foster	2/53	90	49	1	IDS	62673	1.2	817	30	4	203	22	243	0	303	--	82.8	9.3	C3-S2
NE¼ Sec. 9	"	"	"	2/53	90	49	2	IDS	62674	1.1	787	53	0	161	22	243	0	303	--	72.5	6.0	C3-S2
SE¼ Sec. 9	"	"	E. Plumley	6/56	63	22	---	I	322-W	0.9	613	20	16	186	30	85	0	276	--	78.0	7.8	C3-S2
T.10S., R.7E.																						
Sec. 5	Redrock	Pinal	W. F. Dunn	9/55	350	160	---	I	247-W	0.5	324	8	4	85	46	45	2	134	--	84.0	6.4	C2-S1
T.10S., R.9E.																						
Sec. 5	"	"	P. S. Thompson	4/55	600	220	3	I	184-W	0.7	459	29	13	85	30	100	0	202	--	59.0	3.1	C2-S1
Sec. 5	"	"	La Osa Cattle Co.	3/60	225	---	---	I	75715	0.7	514	36	20	82	32	108	0	188	48	51.0	2.9	C2-S1
Sec. 8	"	"	Kinney	12/62	314	---	6	I	81375	0.7	470	44	9	79	40	88	0	185	25	54.0	2.8	C2-S1
Sec. 10	"	"	Y. F. Aguirre	5/59	400	270	---	I	73158	0.7	491	58	10	69	44	90	0	181	44	44.5	2.1	C2-S1
NW¼,SE¼ Sec. 10	"	"	Harvey Coke	12/55	---	---	---	I-D	66313	1.0	699	135	21	48	160	115	0	220	--	19.7	1.0	C3-S1
Sec. 10	"	"	"	4/55	400	191	---	I	167-W	0.7	454	75	15	37	68	88	0	171	--	25.0	1.1	C2-S1
SE¼ Sec. 23	"	"	Thompson	12/55	523	185	---	---	66307	0.5	364	37	18	37	32	20	-	220	--	32.5	1.1	C2-S1
SE¼,NE¼ Sec. 23	"	"	"	12/55	---	189	---	---	66315	0.6	414	45	12	55	40	55	T	207	--	42.4	2.0	C2-S3
T.10S., R.11E.																						
SW¼,SW¼ Sec. 17	"	"	Goodman	12/55	---	388	---	---	66309	0.6	406	41	16	50	52	15	T	232	--	39.2	1.7	C2-S1
T.10S., R.21E.																						
Sec. 12	Bonita	Graham	A. W. Mills	6/61	150	70	---	I-S	769-W	0.4	233	29	12	16	14	11	0	151	--	21.8	0.6	C2-S1
Sec. 15	Sunset	"	Bruce Bosley	4/61	592	---	---	IDS	77942	0.3	240	12	6	63	16	7	0	136	0	71.1	3.7	C2-S1
T.10S., R.23E.																						
Sec. 2	Bonita	"	J. Dubois	2/57	169	70	---	I-D	68097	0.1	70	8	4	5	4	T	0	49	--	23.2	0.7	C1-S1
Sec. 11	"	"	Ft. Grant Indian School	4/61	950	300	---	IDS	77941	0.1	78	6	4	9	4	6	0	49	0	38.8	0.8	C1-S1
T.11S., R.6E.																						
Sec. 32	Silverbell	Pima	Lee R. Delay	4/59	---	---	---	I-S	72845	0.8	532	28	14	117	131	15	0	222	5	66.6	4.5	C3-S1
Sec. 36	"	"	"	4/59	---	---	---	I-S	72846	0.6	426	28	7	89	63	35	0	204	13	66.1	3.8	C2-S1
T.11S., R.10E.																						
Sec. 8	Avra Valley	"	Luckett	9/51	160	---	---	I	61124	0.7	461	68	8	53	34	96	0	202	--	36.1	3.8	C2-S1
Sec. 9	"	"	Farrel	9/51	350	157	---	I	61118	0.6	449	60	4	64	34	92	-	195	--	45.4	2.2	C2-S1
Sec. 9	"	"	John Kai	9/51	350	158	---	I	61122	0.8	531	68	8	76	34	134	0	207	--	44.8	2.3	C3-S1
Sec. 12	"	"	Marana	9/51	500	162	10	I	61126	0.6	443	60	4	63	39	99	0	183	--	45.1	2.2	C2-S1
Sec. 13	"	"	Marana	9/51	520	172	9	I	61129	0.6	393	60	8	41	32	81	0	171	--	32.7	1.3	C2-S1
Sec. 14	"	"	Donald Diggs	9/51	420	170	---	I-D	61136	0.5	378	60	8	35	26	68	0	181	--	29.3	1.2	C2-S1
Sec. 16	"	"	Cortaro	9/51	315	115	$16D_1$	I	61142	0.3	240	45	4	15	24	13	0	139	--	20.1	0.5	C2-S1
Sec. 17	"	"	Luckett	9/51	154	---	---	I	61124	0.7	455	60	8	59	34	92	0	202	--	41.2	1.9	C2-S1
Same ID as T13S R10E Sec 17 Sec. 17	"	"	Claude Hughes	12/58	190	---	---	I-D	69639	5.7	3994	338	46	938	1070	1300	0	142	116	66.3	:::	:::
Sec. 22	"	"	Santa Cruz Ranch	9/51	170	---	---	I	61120	0.9	609	68	11	92	40	164	0	234	--	48.1	2.9	C3-S1
Sec. 23	"	"	Louis Anway	9/51	174	---	---	I	61123	0.8	558	68	8	84	40	150	-	207	--	47.3	2.5	C3-S1
Sec. 24	"	"	Martin	9/51	---	---	---	I	61132	0.6	426	60	4	57	32	83	0	190	--	42.6	1.9	C2-S1
Sec. 24	"	"	Marana	9/51	---	---	8	I	61135	0.7	471	68	8	60	38	109	0	198	--	39.1	1.9	C2-S1
Sec. 25	"	"	John Kai	6/51	600	180	---	I	60786	0.9	639	83	8	81	30	200	0	237	--	42.2	2.3	C3-S1
Sec. 27	"	"	Mrs. Orpha Anway	9/51	550	160	---	I	61145	0.5	323	45	4	40	28	25	0	181	--	40.2	1.5	C2-S1
Sec. 27	"	"	Lee Hurst	4/62	600	160	---	I	802-W	0.4	285	28	7	43	20	25	6	156	--	48.7	5.8	C2-S1
T.11S., R.11E.																						
Sec. 17	Marana	"	Earl Horton	9/51	500	---	---	I-D	61128	0.4	282	53	4	21	30	30	0	144	--	23.4	0.7	C2-S1
Sec. 17	"	"	Claude Hughes	1/58	---	190	---	I-D	69639	1.5	1039	117	28	179	105	288	0	322	116	48.8	3.8	C3-S1
Sec. 20	"	"	Marana	9/51	500	190	7	I	61130	0.7	464	68	8	56	40	119	0	173	--	37.4	1.8	C2-S1
Sec. 28	"	"	"	9/51	500	209	11	I	61133	0.6	396	75	11	21	40	81	0	168	--	16.3	0.6	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.11S., R.11E.																						
Sec. 31	Marana	Pima	B. K. Wong	9/51	500	199	---	I	61134	0.9	626	98	4	80	48	172	0	224	--	39.9	2.3	C3-S1
Sec. 32	"	"	Honea	9/51	400	200	2	I	61094	0.5	348	75	8	27	38	122	0	178	--	20.9	0.8	C2-S1
Sec. 33	"	"	W. D. Hinton	9/51	440	227	---	I	61091	0.5	386	75	8	23	36	73	0	171	--	81.5	0.3	C3-S1
Sec. 33	"	"	Agricultural Engineering Department	7/54	440	230	---	I-D	64591	0.6	401	98	4	10	36	94	0	159	--	7.6	0.1	C2-S1
Sec. 34	"	"	Gladdin	9/51	---	221	---	I-D	61092	0.6	391	68	8	33	34	87	0	161	--	26.0	1.2	C2-S1
Sec. 35	"	"	Marana	9/51	500	220	13	I-D	61098	0.5	354	75	8	13	30	72	0	156	--	11.4	0.3	C2-S1
Sec. 35	"	"	"	9/51	500	199	14	I	61089	0.5	329	60	4	12	30	69	0	154	--	13.5	0.4	C2-S1
Sec. 35	"	"	"	9/51	510	217	6	I	61095	0.5	361	68	8	24	34	73	0	154	--	20.3	0.7	C2-S1
Sec. 35	"	"	Evco Farms	3/61	250	140	---	I	720-W	0.6	378	56	9	38	31	76	0	168	--	32.0	1.1	C2-S1
Sec. 35	"	"	"	3/61	250	140	---	I	719-W	0.6	356	47	12	37	31	66	2	161	--	32.6	1.1	C2-S1
T.11S., R.14E.																						
Sec. 28	Tucson	"	J. E. McAdams Ranch	4/53	350	147	---	I	62824	0.3	172	30	4	10	8	10	0	110	--	13.2	0.4	C1-S1
Sec. 31	"	"	Landmark Engineering	4/53	465	176	---	I	62853	0.3	194	37	4	6	8	10	0	129	--	10.7	0.3	C1-S1
T.11S., R.22E.																						
Sec. 33	Bonita	Graham	Ginna Froelich	2/57	---	---	---	IDS	68099	0.3	220	19	11	23	8	0	0	159	--	35.0	1.0	C2-S1
T.11S., R.28E.																						
Sec. 13	Tanque	"	Gerald Foote	3/61	---	---	---	S	739-W	2.3	1454	28	2	452	163	725	6	78	--	92.8	22.0	C4-S4
Sec. 13	"	"	"	6/61	1800	45	---	I-S	771-W	0.4	274	3	0	87	24	59	23	78	--	96.2	20.0	C2-S4
T.12S., R.10E.																						
Sec. 3	Avra Valley	Pima	B. G. Wong	6/51	520	185	---	I	60792	0.4	248	30	0	37	10	T	0	171	--	51.7	1.6	C2-S1
Sec. 4	"	"	Chaffee Brothers	5/61	1600	230	North	I	758-W	0.3	253	14	5	51	20	19	0	144	--	66.6	3.0	C2-S1
Sec. 4	"	"	"	5/61	1200	230	South	I	757-W	0.3	250	23	10	32	22	12	0	151	--	41.2	1.3	C2-S1
Sec. 4	"	"	"	5/61	800	234	H.D.Q.	I	756-W	0.4	319	26	11	53	55	20	0	154	0	50.8	2.2	C2-S1
Sec. 9	"	"	Bud Britton	1/62	400	150	---	I	793-W	0.4	281	39	11	24	36	21	0	150	--	26.6	0.7	C2-S1
Sec. 11	"	"	J. Wong	5/61	350	---	---	I	762-W	0.7	407	63	29	14	83	45	0	173	--	52.4	0.3	C2-S1
Sec. 11	"	"	Benn Lim	6/51	323	195	---	I	60795	0.4	308	45	0	37	6	20	0	200	--	41.7	2.5	C2-S1
Sec. 12	"	"	Farms & Ranches Inc.	6/51	430	185	1	I	60790	0.6	376	30	0	76	20	50	0	200	--	68.7	3.9	C2-S1
Sec. 14	"	"	B. G. Wong	1/57	250	80	---	I	377-W	0.5	340	40	7	46	42	10	0	195	--	43.7	1.8	C2-S1
Sec. 24	"	"	Koulas	6/51	---	200	---	I	60791	0.4	260	30	0	39	10	T	0	181	--	53.1	1.7	C2-S1
Sec. 32	"	"	Cady	6/51	420	205	---	I	60789	0.4	267	38	0	34	12	T	0	183	--	43.7	1.6	C2-S1
Sec. 33	"	"	Kai	6/51	---	202	---	I	60794	0.4	258	45	0	23	14	T	0	176	--	30.7	0.8	C2-S1
T.12S., R.11E.																						
Sec. 4	"	"	B. K. Wong	9/51	553	212	---	I	61097	0.7	518	98	8	40	46	133	0	193	--	23.8	1.0	C2-S1
Sec. 7	"	"	John Kai	4/62	---	---	---	I	805-W	0.5	392	30	14	60	26	57	0	205	--	50.0	2.2	C2-S1
Sec. 12	"	"	B. K. Wong	4/51	400	---	---	I	60583	0.9	641	112	8	61	44	191	0	224	--	29.7	1.5	C3-S1
Sec. 15	"	"	"	6/51	551	195	---	I	60788	0.9	595	68	4	94	20	150	T	259	--	52.3	3.1	C3-S1
Sec. 16	"	"	Cortaro	9/51	340	115	$16C_3$	I	61139	0.4	280	53	4	18	24	15	0	166	--	20.7	0.5	C2-S1
Sec. 16	"	"	"	9/51	315	115	$16D_2$	I	61140	0.3	231	45	4	13	22	18	0	129	--	18.0	0.5	C2-S1
Sec. 18	"	"	Blair	9/51	470	212	---	I	61150	0.4	302	45	4	33	30	T	0	190	--	35.6	1.3	C2-S1
Sec. 18	"	"	Grover & Blair Farm	3/60	260	---	---	I	617-W	0.5	304	33	8	40	28	10	0	185	--	42.8	1.5	C2-S1
Sec. 22	"	"	W. E. Culbertson	1/62	---	---	---	I	79725	0.5	345	28	7	61	24	40	5	176	4	57.5	2.5	C2-S1
Sec. 30	"	"	F. E. Huff	10/56	450	160	---	I	371-W	0.4	245	19	12	41	20	T	0	183	--	47.8	1.8	C2-S1
T.12S., R.12E.																						
Sec. 8	"	"	Cortaro	9/51	261	115	8J	I	61147	0.6	394	60	8	42	34	99	0	151	--	33.3	1.3	C2-S1
Sec. 8	"	"	Goodman	2/57	250	128	---	I	68038	0.4	256	34	5	21	20	30	0	146	--	30.1	0.8	C2-S1
Sec. 9	"	"	Choate	1/57	199	121	---	I	68037	0.4	278	23	8	44	20	T	0	183	--	51.3	2.2	C2-S1
Sec. 9	"	"	Joynt	1/56	---	---	---	---	66494	0.4	265	21	10	39	24	T	0	174	--	47.4	1.8	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC x 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.12S., R.12E.																						
NE¼,SE¼ Sec. 11	Avra Valley	Pima	D. Boone	1/56	397	---	---	---	66496	0.7	475	72	8	55	50	95	T	195	--	27.6	1.6	C2-S1
NW¼,SE¼ Sec. 15	"	"	W. R. Fry	9/55	249	---	---	---	66177	0.4	301	27	6	48	24	20	0	176	--	52.9	2.1	C2-S1
Sec. 17	"	"	Cortaro	9/51	416	115	$17I_1$	I	61148	0.7	482	75	4	62	48	134	0	159	--	39.8	1.9	C2-S1
Sec. 18	Rillito	"	Agricultural Engineering Department	7/54	550	250	---	I	64592	1.2	851	128	4	117	46	300	0	256	--	43.0	3.1	C3-S1
Sec. 21	Cortaro	"	A. Oshrin	7/56	500	150	---	I	329-W	1.1	767	44	32	218	66	175	0	232	--	66.0	6.1	C3-S2
Sec. 22	"	"	L. F. Curtis	1/57	---	93	---	I	68040	1.3	882	137	23	97	110	315	0	200	--	32.5	2.1	C3-S1
Sec. 26	"	"	T. C. Tucker	5/58	---	---	---	I	70819	1.0	662	78	16	90	52	206	0	199	16	42.8	2.5	C3-S1
Sec. 29	"	"	C. Akrah	1/57	250	153	---	I	68041	1.2	846	67	26	145	50	270	0	288	--	53.4	3.8	C3-S1
T.12S., R.13E.																						
Sec. 4	Tucson	"	J. D. Ageton	2/51	510	410	---	I-D	60241	0.4	302	45	0	38	16	15	0	188	--	42.3	1.4	C2-S1
Sec. 24	"	"	Oro Valley Country Club	6/59	---	---	---	I	73350	0.3	233	26	5	32	8	45	0	117	--	44.8	2.0	C2-S1
NW¼,NE¼ Sec. 24	"	"	O. L. Shields	9/56	---	---	---	---	67243	0.2	145	18	5	14	10	0	0	98	--	31.8	0.8	C1-S1
Sec. 24	"	"	"	9/56	---	---	---	---	67244	0.2	135	16	5	14	10	0	0	90	--	33.1	0.8	C1-S1
T.12S., R.18E.																						
Sec. 3	Redington	"	K. Smallhouse	12/62	122	55	---	I	81326	0.7	537	57	15	69	16	98	0	274	8	42.6	2.2	C2-S1
Sec. 3	"	"	"	4/59	105	42	---	I	576-W	0.7	503	51	15	66	10	95	0	266	--	44.0	2.0	C2-S1
Sec. 11	"	"	"	4/59	160	60	---	I	575-W	0.8	529	69	18	48	16	70	0	308	--	30.0	1.3	C3-S1
T.12S., R.24E.																						
Sec. 8	"	"	B. B. Mullican	4/58	475	95	---	I	473-W	0.6	450	24	3	115	97	92	2	117	--	77.1	6.0	C2-S1
Sec. 19	Sulphur Springs Valley	Cochise	S. Dabbs	8/59	205	145	---	I-S	600-W	0.2	130	15	7	9	6	5	0	88	0	22.7	0.5	C1-S1
Sec. 19	"	"	A. A. Jernygan	1/51	110	75	---	I	59942	0.3	181	22	4	21	12	0	0	122	--	38.8	1.0	C2-S1
Sec. 24	"	"	V. S. Lincoln	5/55	300	94	---	I	197-W	0.3	187	19	4	30	24	0	0	110	--	52.0	1.5	C2-S1
Sec. 34	"	"	Theodore Jackson	5/55	100	92	---	I-D	65921	0.5	345	43	9	41	20	25	0	207	--	38.1	1.6	C2-S1
T.12S., R.28E.																						
Sec. 26	Bowie	"	D. Cluff	5/58	1000	189	---	I-S	491-W	0.4	289	3	6	93	30	57	2	98	--	86.0	6.0	C2-S1
Sec. 35	"	"	J. Boggs	6/56	250	184	---	I-S	327-W	0.5	324	0	3	92	20	---	14	195	--	92.0	10.0	C2-S2
T.13S., R.9E.																						
Sec. 9	Avra Valley	"	T. Hale	6/51	---	236	---	I-D	60783	0.4	259	45	0	23	10	T	0	181	--	30.7	0.8	C2-S1
T.13S., R.10E.																						
Sec. 2	"	"	Jones-Avra Ranches	3/55	350	---	---	I	159-W	0.5	332	42	6	41	20	50	0	173	--	41.0	1.7	C2-S1
Sec. 2	"	"	"	3/55	350	---	---	I	160-W	0.4	300	45	6	16	10	50	0	178	--	21.0	0.7	C2-S1
Sec. 3	"	"	Harold Lumberg	5/52	360	250	---	I	61975	0.4	310	68	4	10	28	15	0	176	--	10.3	0.3	C2-S1
Sec. 4	"	"	Patrick Tucker	5/52	365	255	---	I	61974	0.5	331	60	8	22	36	15	0	190	--	29.7	0.5	C2-S1
Sec. 4	"	"	Tucker (Ag. Eng. Dept.)	6/51	---	215	---	I	60793	0.3	257	30	0	39	10	T	0	178	--	53.1	1.8	C2-S1
Sec. 9	"	"	T. Hale	6/51	---	236	---	I-D	60783	0.8	259	45	0	23	10	T	0	181	--	30.7	0.8	C2-S1
Sec. 9	"	"	J. B. Hale	4/61	710	400	---	I-D	77925	0.4	276	33	7	32	16	17	0	168	3	38.4	1.4	C2-S1
Sec. 13	"	"	Louis Anway	7/51	600	300	---	I	60990	0.4	269	53	11	3	26	10	0	166	--	3.5	0.3	C2-S1
Sec. 14	"	"	"	6/51	596	238	1	I	60784	0.3	239	38	0	25	10	T	0	166	--	36.4	1.2	C2-S1
Sec. 14	"	"	R. Anway	4/55	350	---	---	I	176-W	0.5	316	27	11	48	24	25	0	181	--	48.0	2.0	C2-S1
Sec. 15	"	"	Louis Anway	6/51	800	238	2	I	60785	0.4	244	30	0	35	8	T	0	171	--	50.3	1.8	C2-S1
Sec. 17	"	"	Claude Hughes	12/58	---	190	---	I-D	69639	5.7	3994	338	46	948	1070	1300	0	142	116	66.5	:::	:::
Sec. 22	"	"	Roy Anway	9/57	---	---	---	I	448-W	0.4	261	15	7	51	40	15	0	134	--	63.0	3.5	C2-S1
Sec. 22	"	"	"	4/55	---	350	---	I	190-W	0.5	321	19	13	53	30	25	0	181	--	53.2	2.2	C2-S1
Sec. 22	"	"	"	4/55	---	350	---	I	191-W	0.5	319	21	13	46	28	25	0	176	--	48.0	2.0	C2-S1
Sec. 25	"	"	W. W. Jarvis	6/51	---	257	---	I-D	60787	0.3	228	30	0	29	T	T	0	168	--	45.6	1.5	C2-S1
T.13S., R.11E.																						
Sec. 8	"	"	A. R. Heldt	8/58	---	---	---	I	71492	0.6	417	33	13	69	35	55	5	207	--	52.4	2.7	C2-S1
Sec. 31	"	"	Jones-Avra Ranches	2/55	700	290	2	I-S	121-W	0.3	268	30	4	39	20	T	0	175	--	49.0	1.8	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.13S., R.12E.																						
Sec. 9	Cortaro	Pima	E. Staggs	12/55	---	---	---	---	66348	1.2	835	104	40	80	126	95	0	390	--	29.0	1.8	C3-S1
Sec. 12	Tucson	"	C. E. Tilton	10/53	175	90	---	I-D	63294	1.4	982	142	4	143	66	340	0	258	--	45.5	2.8	C3-S1
T.13S., R.13E.																						
Sec. 6	"	"	Jim Schumaker Ranch	4/55	---	---	---	I-D	65884	1.8	1287	190	31	150	118	500	0	298	--	35.0	2.7	C3-S1
$NW\frac{1}{4}$,$NW\frac{1}{4}$ Sec. 11	"	"	R. W. McCann	2/57	310	190	---	---	68055	0.3	239	27	10	21	22	T	---	---	--	30.1	0.8	C2-S1
Sec. 14	"	"	Harry Heller	1/52	---	---	---	I-D	61591	0.7	475	23	4	118	34	162	0	134	--	76.6	6.0	C2-S1
Sec. 17	"	"	Lester Shanton	9/53	220	100	---	I	63222	0.9	635	120	4	60	52	204	0	195	--	29.1	1.5	C3-S1
Sec. 19	"	"	Gorm Loftfield	2/50	169	68	---	I-D	56538	1.5	1031	113	8	182	86	276	0	366	--	55.6	4.4	C3-S1
Sec. 19	"	"	H. M. Hull	4/58	300	190	---	I-D	70711	1.7	1214	104	24	214	102	364	0	378	27	56.4	4.8	C3-S2
Sec. 21	"	"	C. C. Hammond	6/59	---	---	---	I-D	73387	0.9	655	105	46	15	44	250	0	195	--	6.7	0.4	C3-S1
Sec. 22	"	"	G. S. Lee	9/53	130	---	---	I-D	63210	2.8	1986	352	8	243	230	760	0	292	--	36.6	3.5	C4-S2
Sec. 22	"	"	General Mills	7/57	---	---	---	---	68937	0.6	450	52	11	62	38	80	0	207	--	43.4	2.0	C2-S1
Sec. 23	"	"	Flowing Wells Irrigation District	10/59	---	---	66	I-D	73522	0.7	465	61	9	60	40	95	0	200	--	64.8	1.9	C2-S1
Sec. 23	"	"	"	11/56	---	---	66	I-D	67346	1.0	722	85	14	107	30	230	0	256	--	46.2	2.8	C3-S1
Sec. 23	"	"	"	7/52	---	---	66	I-D	62091	0.8	530	98	8	44	46	134	0	200	--	25.5	1.2	C3-S1
Sec. 23	"	"	H. Muramoto	4/59	165	95	---	I-D	72864	0.4	280	51	5	16	10	20	0	178	5	19.6	0.5	C2-S1
Sec. 24	"	"	B. M. Stanley	2/52	---	---	---	I-D	61599	0.4	288	53	8	15	20	16	0	176	--	16.4	0.5	C2-S1
Sec. 26	"	"	Flowing Wells I. D.	11/56	---	---	60	I-D	67340	0.5	372	37	10	58	36	65	0	166	--	49.2	2.2	C2-S1
Sec. 26	"	"	"	11/56	---	---	61	I-D	67341	0.9	636	31	4	37	18	20	0	154	--	47.2	1.7	C3-S1
Sec. 26	"	"	"	11/56	---	---	63	I-D	67343	1.1	777	56	13	150	40	140	0	378	--	62.5	4.7	C3-S1
Sec. 26	"	"	"	10/59	---	---	63	I-D	73523	0.6	405	50	8	54	28	70	0	195	--	42.4	1.8	C2-S1
Sec. 26	"	"	"	11/56	---	---	64	I-D	67344	0.3	241	25	4	36	10	10	0	156	--	49.3	1.7	C2-S1
Sec. 26	"	"	"	10/59	---	---	64	I-D	73524	0.4	295	38	5	39	32	30	0	151	--	42.2	1.6	C2-S1
Sec. 26	"	"	"	11/56	---	---	69	I-D	67347	0.3	230	31	1	14	10	15	0	159	--	27.6	0.7	C2-S1
Sec. 26	"	"	"	10/59	---	---	69	I-D	73521	0.8	564	71	7	99	125	140	0	122	--	51.0	3.0	C3-S1
Sec. 28	"	"	Agricultural Engineering Department	6/52	154	69	---	I	62044	1.5	1063	143	15	162	144	340	0	259	--	45.6	3.5	C3-S1
Sec. 28	"	"	"	6/52	193	6	---	I	62046	1.5	1029	128	11	171	140	282	0	297	--	50.4	3.9	C3-S1
Sec. 34	"	"	G. F. Woods	5/54	200	90	---	I	64215	1.4	1007	112	8	193	160	300	0	234	--	57.2	4.6	C3-S1
Sec. 34	"	"	T. H. Kerr	8/57	150	96	---	I	68936	1.1	774	78	14	140	82	230	0	244	--	54.6	3.9	C3-S1
Sec. 34	"	"	University of Arizona	4/61	---	---	Casa Grande Feedlot	I-D	77704	1.4	1044	206	15	87	157	313	0	252	14	24.7	1.6	C3-S1
Sec. 34	"	"	"	4/61	---	---	Poultry Farm	I-D	77705	1.9	1241	125	21	249	243	475	0	128	--	57.5	5.6	C3-S2
Sec. 34	"	"	"	4/61	---	---	Dairy Center	I-D	77706	0.4	278	40	7	25	14	20	0	166	6	29.7	1.0	C3-S1
Sec. 34	"	"	Flowing Wells I. D.	11/56	---	---	65	I-D	67345	1.7	1198	123	24	216	200	325	0	310	--	53.6	4.7	C3-S1
Sec. 34	"	"	"	10/59	---	---	65	I-D	73520	1.7	1173	137	9	230	257	330	0	210	--	56.8	5.1	C3-S2
Sec. 35	"	"	"	11/56	---	---	59	I-D	67339	0.5	370	35	8	62	36	70	0	159	--	52.8	2.5	C2-S1
Sec. 35	"	"	"	11/56	---	---	62	I-D	67342	0.6	382	35	7	64	36	45	0	195	--	54.7	2.6	C2-S1
Sec. 35	"	"	"	10/59	---	---	62	I-D	73519	0.5	381	41	8	53	48	80	0	151	--	45.8	2.0	C2-S1
Sec. 36	"	"	Dr. T. J. Breman	8/53	300	---	---	I-D	63119	0.3	180	15	4	30	14	10	0	107	--	54.6	1.6	C2-S1
T.13S., R.14E.																						
Sec. 19	"	"	University of Arizona	12/58	300	50	---	I-D	72198	0.5	318	62	8	11	16	40	0	181	--	14.8	0.4	C2-S1
Sec. 19	"	"	"	4/61	---	---	Ag. Bldg.	I-D	77695	0.5	306	53	9	20	20	84	0	120	--	20.4	0.9	C2-S1
Sec. 19	"	"	"	4/61	---	---	Aero "	I-D	77696	0.6	426	63	9	45	35	84	0	190	--	33.4	1.4	C2-S1
Sec. 19	"	"	"	4/61	---	---	Athletic	I-D	77710	0.5	315	42	8	35	14	67	2	142	5	35.5	1.4	C2-S1
Sec. 20	"	"	Catalina Foothills Estates	9/52	---	---	---	I	62327	0.5	316	45	4	37	22	54	0	154	--	38.4	1.4	C2-S1
Sec. 27	"	"	Sam Mamchur	6/57	190	90	---	I-D	68728	0.5	315	35	11	37	30	T	0	202	--	37.7	1.5	C2-S1
Sec. 28	"	"	Gene Anderson	2/60	169	62	---	IDS	75356	0.4	289	45	7	22	8	36	0	171	--	25.0	0.7	C2-S1
$SE\frac{1}{4}$,$SW\frac{1}{4}$ Sec. 29	"	"	University of Arizona	4/61	---	---	---	I	77701	0.4	273	44	6	21	16	23	0	151	12	25.2	0.7	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.13S., R.14E.																						
SE¼,SW¼ Sec. 29	Tucson	Pima	University of Arizona	4/61	---	---	---	I	77702	0.3	194	31	4	15	10	17	0	110	7	42.4	0.6	C2-S1
Sec. 35	"	"	L. Douglas	10/59	---	---	---	I-S	611-W	0.3	253	39	5	21	6	24	0	156	2	28.0	0.7	C2-S1
Sec. 35	"	"	R. P. Smith	9/59	---	---	---	I-S	602-W	0.5	411	69	9	25	10	20	0	268	10	20.3	0.7	C2-S1
Sec. 36	"	"	J. Hardy	9/59	---	---	---	I-S	605-W	0.4	314	42	8	31	8	40	0	185	0	32.5	1.2	C2-S1
T.13S., R.15E.																						
NE¼,SE¼ Sec. 17	"	"	Russ Allen	2/56	---	---	---	---	66517	0.9	647	16	16	138	40	10	0	427	--	73.8	5.8	C3-S2
NE¼ Sec. 17	"	"	F. R. Doulberry	4/56	---	---	---	---	66810	3.2	2246	265	2	432	48	1450	0	49	--	55.6	6.8	C4-S2
T.13S., R.16E.																						
Sec. 30 ✓	"	"	T. D. Wilson	4/59	100	19	---	I-D	72947	3.9	2700	122	14	684	125	1000	0	747	--	80.0	15.6	C4-S4
T.13S., R.19E.																						
Sec. 8	Cascabel	Cochise	Harris & McGee	6/58	132	26	---	I	504-W	0.7	521	51	15	74	41	57	0	283	--	41.0	2.3	C2-S1
Sec. 8	"	"	C. Teague	2/59	---	20	---	I	544-W	0.8	582	14	20	70	14	100	0	364	--	36.0	6.1	C3-S2
Sec. 10	San Pedro Valley	"	City of Tucson	11/62	---	27	---	I-D	81230	0.6	421	51	13	43	18	34	0	262	0	34.3	1.6	C2-S1
Sec. 12	Hot Springs Canyon	"	"	10/62	---	60	---	I-D	81128	0.5	413	44	12	49	18	14	0	276	--	40.0	1.8	C2-S1
Sec. 15	San Pedro Valley	"	Pool School	10/62	---	33	---	I-D	81138	0.7	580	60	20	67	16	65	0	352	--	38.7	1.9	C2-S1
Sec. 15	"	"	Gibons	7/62	---	45	---	I-D	80714	0.6	496	62	12	55	12	75	0	280	--	36.8	1.6	C2-S1
Sec. 22	"	"	R. J. Reeves	7/62	---	48	---	I-D	80715	0.5	375	64	15	10	10	15	0	261	--	8.8	0.3	C2-S1
Sec. 25	"	"	City of Tucson	11/62	145	45	---	I-D	81231	0.8	597	48	17	98	26	147	0	260	1	52.9	3.2	C3-S1
Sec. 25	"	"	D. G. Anderson	5/51	---	---	---	I-D	60752	0.9	613	90	8	68	26	94	0	327	--	36.5	1.8	C3-S1
SW¼,SW¼ Sec. 26	Benson	"	Harry Smith	10/63	90	61	---	S	84003	0.6	418	80	9	16	12	38	0	263	--	13.0	0.5	C2-S1
T.13S., R.20E.																						
SE¼,SE¼ Sec. 31	Cascabel	"	"	6/62	---	18	---	I-D	80580	0.6	488	41	15	75	28	88	0	239	--	49.8	1.0	C2-S1
T.13S., R.21E.																						
Sec. 29	San Simon	"	C. H. Caldwell	3/54	108	63	---	I	63895	0.6	409	22	4	92	24	77	0	190	--	73.6	4.1	C2-S1
T.13S., R.24E.																						
Sec. 1	Sulfur Springs Valley	"	Don Franklin	10/54	308	76	---	I-D	64930	0.5	356	15	7	81	34	65	0	154	--	80.5	4.5	C2-S1
Sec. 2	Willcox	"	E. A. McGuire	6/62	858	90	---	I	80641	0.4	262	3	2	75	40	25	0	117	0	91.3	8.0	C2-S2
Sec. 3	"	"	E. T. Dunlap	7/61	60	30	---	I	774-W	0.6	385	32	9	67	42	45	7	183	--	55.3	2.6	C2-S1
Sec. 8	"	"	F. Schmelzla	5/55	400	86	---	IDS	65898	1.0	722	10	4	242	212	135	34	78	--	78.1	17.0	C3-S3
Sec. 10	"	"	H. Hestand	7/58	---	---	---	---	510-W	0.3	201	9	1	49	39	0	10	93	--	82.0	4.5	C2-S1
Sec. 10	"	"	M. Bloodworth	7/55	157	80	---	I	226-W	0.2	159	8	8	24	20	T	T	98	--	50.0	1.5	C1-S1
Sec. 12	"	"	Round Tree Cotton Co.	6/60	---	105	1	I-D	76501	0.4	217	26	7	25	26	13	0	120	--	36.4	1.3	C2-S1
Sec. 12	"	"	"	6/60	800	105	8	I-D	76500	1.2	803	3	0	268	172	170	0	190	--	99.0	:::	:::
Sec. 13	"	"	E. R. Pence	9/56	100	53	---	I	358-W	0.5	342	25	6	71	62	T	12	165	--	63.0	3.3	C2-S1
Sec. 13	"	"	Bill Lely	12/58	100	---	---	I-D	72243	0.4	301	40	2	43	30	30	0	156	--	86.2	1.8	C2-S1
Sec. 13	"	"	Bob Bretz	8/56	100	50	---	I-D	67131	2.7	1789	274	42	244	370	710	0	149	--	38.2	3.6	C4-S2
Sec. 13	"	"	A. L. McClure	5/53	170	47	---	I	62889	0.5	364	45	4	56	46	40	0	173	--	48.5	2.1	C2-S1
E½,NW¼ Sec. 13	"	"	J. D. McCormick	9/63	185	130	1	I-S	83919	0.6	381	54	7	46	49	48	0	176	1	37.6	1.5	C4-S1
Sec. 13	"	"	Ed McGuire	10/63	877	100	1	I	84008	0.4	233	5	1	64	20	34	2	107	0	90.3	7.0	C2-S1
Sec. 13	"	"	"	10/63	225	100	2	IDS	84009	0.3	204	18	2	34	8	8	0	132	2	57.5	2.0	C2-S1
Sec. 15	"	"	Charles Brady	4/59	---	85	---	I-S	587-W	0.4	269	4	1	71	12	10	0	171	--	92.0	8.5	C2-S2
Sec. 15	"	"	R. O. Young	7/58	400	73	---	I-S	512-W	0.5	362	10	1	106	39	40	34	132	--	83.0	8.5	C2-S2
NW¼ Sec. 15	"	"	C. J. Brady	7/58	403	150	---	I	71157	0.3	175	14	3	37	28	T	10	83	--	62.8	2.4	C1-S1
Sec. 17	"	"	Garwood Johns	6/60	500	100	2	I-D	76502	0.4	242	24	3	46	36	26	0	117	--	58.3	2.5	C2-S1
Sec. 17	"	"	"	6/60	500	100	3	I-D	76503	0.3	209	16	3	38	10	20	0	122	--	61.1	2.4	C2-S1
Sec. 18	"	"	"	6/60	600	100	4	I-D	76504	0.3	223	24	4	33	20	18	0	124	--	48.5	1.7	C2-S1
Sec. 21	"	"	Jack Adams	6/62	266	97	---	I-D	80596	0.4	226	17	5	40	24	8	0	132	0	58.2	2.2	C2-S1
NW¼ Sec. 22	"	"	Tom Taylor	9/63	180	60-70	1	I	83936	0.8	528	11	1	154	94	46	5	215	2	91.2	11.5	C3-S2
Sec. 23	"	"	R. E. McComb	1/61	6872	---	---	I-D	77375	0.3	214	10	2	48	14	11	0	129	1	75.7	4.0	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC x 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.13S., R.24E.																						
Sec. 23	Willcox	Cochise	W. H. Bacheller	8/50	85	60	---	I	59230	0.4	252	38	4	34	24	T	0	185	--	39.8	1.3	C2-S1
NW¼,NW¼ Sec. 26	"	"	L. W. Ingraham	4/53	108	38	---	I-D	62826	0.4	289	22	4	63	70	20	0	107	--	65.7	3.3	C2-S1
Sec. 27	"	"	Murrell & Nelson	5/54	200	47	---	I-S	64305	1.6	1129	60	4	320	326	260	T	159	--	80.6	10.7	C3-S3
Sec. 29	"	"	G. E. Brush	4/59	100	50	---	I-S	570-W	0.4	269	21	3	49	10	25	0	161	--	62.0	2.7	C2-S1
Sec. 31	"	"	W. L. Johnson	4/60	110	30	---	I-D	76039	0.5	327	36	7	46	22	43	0	171	--	46.0	1.9	C2-S1
Sec. 33	"	"	E. T. Dunlap	11/59	141	42	---	I-D	74586	0.4	280	12	3	60	8	20	0	171	6	75.4	4.3	C2-S1
Sec. 34	"	"	L. J. Neal	1/59	---	---	---	IDS	72372	0.4	296	10	1	63	20	20	T	176	--	82.5	5.5	C2-S1
Sec. 35	"	"	Mark Cook	9/53	143	---	---	I	63226	0.8	545	45	0	127	114	71	T	188	--	71.0	5.3	C3-S1
Sec. 35	"	"	E. T. Dunlap	7/61	60	30	---	I	774-W	0.6	385	32	9	67	42	45	7	183	--	55.3	9.3	C2-S2
NW¼,NW¼ Sec. 35	"	"	Bill Graham	9/63	92	46	1	I-D	83975	1.2	788	56	19	154	110	144	0	283	22	60.4	4.4	C3-S1
NW¼,NW¼ Sec. 35	"	"	"	9/63	160	45	2	I	83976	1.2	866	49	18	188	130	134	0	322	25	67.5	5.8	C3-S2
NW¼,NW¼ Sec. 35	"	"	"	9/63	160	45	3	I	83977	0.8	526	36	13	95	41	60	0	268	13	59.2	3.6	C4-S1
NW¼,NW¼ Sec. 35	"	"	"	9/63	160	45	4	I	83978	1.5	845	78	27	160	237	169	0	151	23	53.0	3.8	C3-S1
T.13S., R.25E.																						
Sec. 9	"	"	Fred Ratcliff	1/59	105	70	---	I-S	534-W	0.6	365	43	14	37	32	15	T	224	--	33.0	1.3	C2-S1
SW¼,SE¼ Sec. 9	"	"	J. E. Kane	12/60	101	67	---	I-D	77343	0.5	375	38	13	46	24	30	0	198	26	40.2	1.8	C2-S1
Sec. 18	"	"	Joe Lane	11/62	250	32	---	I	81176	0.6	315	0	1	101	22	40	30	122	0	98.2	:::	:::
Sec. 29	"	"	City of Willcox	1/62	87	28	At reservoir	I-S	794-W	0.7	479	12	7	119	24	68	10	239	--	81.5	7.0	C2-S2
Sec. 31	"	"	"	6/60	---	---	13	I-D	76498	0.4	291	25	5	48	12	23	0	178	--	55.7	2.5	C2-S1
Sec. 31	"	"	"	6/60	---	---	12	I-D	76497	0.4	256	24	4	40	10	15	0	163	--	53.2	2.1	C2-S1
Sec. 31	"	"	"	6/60	---	---	5	I-D	76499	0.5	350	23	6	69	16	34	4	202	--	64.5	3.3	C2-S1
Sec. 31	"	"	"	1/59	750	Artesian		I-D	72371	2.3	1578	3	1	555	414	280	10	312	--	99.0	22.0	C4-S4
Sec. 31	"	"	"	1/59	80	Artesian		I-D	72325	0.4	263	26	5	40	16	20	0	156	--	50.4	1.9	C2-S1
T.13S., R.26E.																						
Sec. 31	"	"	Tom Martin	5/59	204	111	---	IDS	73152	1.5	1064	56	13	293	378	150	0	171	2	77.0	5.9	C3-S2
Sec. 31	"	"	"	8/57	125	86	---	IDS	69069	4.1	2861	193	32	768	1060	515	0	293	--	73.1	13.6	C4-S4
T.13S., R.28E.																						
Sec. 9	Bowie	"	L. D. Shawn	12/51	500	150	---	I-S	61485	0.5	340	75	4	13	38	20	0	190	--	12.2	0.5	C2-S1
T.13S., R.31E.																						
Sec. 28	San Simon	"	J. B. Barnes	4/59	200	47	---	I-S	584-W	0.4	308	34	1	52	12	60	0	149	--	56.0	2.5	C2-S1
Sec. 28	"	"	P. Barnes	3/59	50	---	---	I	566-W	8.5	5463	238	142	1530	2360	900	0	293	--	74.0	:::	:::
Sec. 29	"	"	C. H. Caldwell	3/54	108	63	---	I	63895	0.6	409	22	4	92	24	77	0	190	--	73.6	4.1	C2-S1
Sec. 33	"	"	P. W. Norriel	4/59	100	26	---	I-S	585-W	0.4	326	43	3	44	10	70	0	156	--	44.3	1.8	C2-S1
T.14S., R.11E.																						
Sec. 5	Avra Valley	Pima	F. Russell	3/55	412	---	---	I	139-W	1.0	662	23	0	207	300	25	0	107	--	88.6	12.0	C3-S3
Sec. 27	"	"	J. Lord	4/62	300	---	---	I	804-W	0.4	265	26	4	41	16	12	0	166	--	52.5	1.8	C2-S1
Sec. 29	"	"	Gib Ziedler	1/53	542	295	---	I	62640	0.4	249	45	15	7	40	T	0	142	--	7.9	0.2	C2-S1
T.14S., R.12E.																						
N½ Sec. 33	"	"	A. A. McDaniel	9/55	---	---	---	---	66159A	1.2	841	53	35	147	66	240	0	300	--	55.9	4.0	C3-S1
T.14S., R.13E.																						
Sec. 3	Tucson	"	El Rio Country Club	12/60	---	---	---	I	77336	1.3	943	106	24	133	40	310	0	332	6	44.4	3.0	C3-S1
Sec. 6	"	"	Jim Schumaker Ranch	4/55	---	---	---	I-D	65884	1.8	1287	190	31	150	118	500	0	298	--	35.1	2.7	C3-S1
Sec. 23	"	"	A. Ronquillo	2/57	---	---	---	I	388-W	1.5	1024	34	4	276	40	450	0	220	--	86.0	12.4	C3-S3
Sec. 26	"	"	Tucson Indian Training School	3/55	200	50	---	I	134-W	0.7	483	75	0	62	26	100	0	220	--	42.0	1.8	C2-S1
Sec. 26	"	"	"	3/55	170	50	---	I	135-W	0.7	469	68	0	64	20	90	0	227	--	47.0	2.0	C2-S1
Sec. 36	"	"	Louis Musil	7/58	---	---	---	I	71168	0.6	436	59	13	46	37	120	0	161	--	33.2	1.5	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC x 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.14S., R.14E.																						
Sec. 12	Tucson	Pima	Hartsfield	2/55	---	---	---	I	119-W	0.3	232	38	0	25	20	0	0	149	--	36.5	1.1	C2-S1
Sec. 14	"	"	Turfgrass Farm	4/54	---	---	---	I	64039	0.4	274	52	4	14	8	20	0	176	--	17.2	0.6	C2-S1
Sec. 23	"	"	A. Ronquillo	1/59	110	31	---	I	72469	1.4	999	70	9	218	30	410	0	256	6	69.1	1.4	C3-S2
T.14S., R.15E.																						
Sec. 1	"	"	Roy E. Bennett	1/58	105	38	---	IDS	69884	0.8	551	36	15	110	74	149	0	166	--	61.2	3.9	C3-S1
Sec. 1	"	"	Landmark Supply	7/52	147	34	---	I	62202	0.4	256	53	4	20	24	53	0	122	--	22.5	0.6	C2-S1
Sec. 2	"	"	H. Komarek Ranch	7/59	---	---	4	I-D	73933	0.4	257	25	5	40	10	45	0	132	0	51.0	1.7	C2-S1
Sec. 2	"	"	"	7/59	100	---	---	I	73669	0.4	249	24	6	38	12	50	0	117	--	49.2	1.7	C2-S1
$NE\frac{1}{4},NW\frac{1}{4}$ Sec. 2	"	"	"	7/59	100	---	---	I	73670	0.3	241	23	5	37	10	35	0	129	--	50.7	1.8	C2-S1
Sec. 3	"	"	"	7/59	---	---	Pallord	I-D	73932	0.5	350	34	8	53	12	75	0	163	5	49.0	2.2	C2-S1
Sec. 3	"	"	Edward Tappan	9/57	---	---	---	I-S	446-W	0.3	231	22	4	39	36	15	0	114	4	55.0	1.8	C2-S1
Sec. 7	"	"	H. B. Wright Estate	9/50	335	200	---	I-D	59359	0.5	312	15	11	58	18	51	0	159	--	60.4	3.0	C2-S1
Sec. 9	"	"	E. J. Piggott, Jr.	9/62	---	---	---	I	81067	0.3	229	22	6	35	17	48	0	98	3	49.2	1.6	C2-S1
Sec. 9	"	"	Thomas Robb III	3/52	220	94	---	I-D	61791	0.4	246	45	4	18	30	10	0	139	--	23.6	0.6	C2-S1
Sec. 12	"	"	R. D. Harkness	5/56	---	---	---	---	66967	0.4	243	20	7	37	20	T	T	159	--	50.4	2.0	C2-S1
Sec. 14	"	"	Basil Hazard	4/58	350	210	---	IDS	70591	0.3	205	35	6	9	9	0	0	146	--	14.7	0.4	C2-S1
Sec. 21	"	"	E. R. Van Winkle	4/50	350	175	---	IDS	58024	0.6	383	53	11	32	4	56	0	227	--	28.1	1.0	C2-S1
Sec. 32	"	"	F. M. Marshall	12/53	200	125	---	IDS	63499	0.8	530	98	4	49	16	200	0	163	--	28.9	1.4	C3-S1
T.14S., R.16E.																						
Sec. 3	Tanque Verde	"	Sam Drucker	1/50	Spring	---	---	I	56290	1.1	781	30	0	214	56	279	5	195	--	86.1	10.8	C3-S2
√Sec. 5	Tucson	"	49er Ranch	4/56	15	---	---	I	292-W	0.3	180	19	7	21	20	15	0	98	--	37.0	1.0	C2-S1
√Sec. 5	"	"	"	4/56	14	---	---	I	291-W	0.2	166	15	6	25	20	15	0	85	--	48.0	1.3	C1-S1
√Sec. 5	"	"	"	4/56	---	---	---	I	290-W	0.3	206	25	6	23	20	15	0	117	--	36.0	1.1	C2-S1
√Sec. 6	"	"	Herbert Lewis	10/52	---	---	---	I-D	62430	0.4	297	38	0	48	22	61	0	127	--	52.3	2.3	C2-S1
Sec. 9	"	"	G. C. Greene	3/62	70	17	---	IDS	80102	0.3	141	28	6	1	12	16	0	78	--	2.5	0.1	C2-S1
T.14S., R.20E.																						
Sec. 6	Cascabel	Cochise	Unknown	7/62	---	---	---	I	80723	0.7	547	50	18	76	16	116	0	264	6	45.4	2.5	C2-S1
Sec. 8	Benson	"	Gillespie	6/62	140	92	---	I-D	80577	0.8	554	60	20	68	24	142	0	240	--	39.2	2.0	C3-S1
Sec. 21	Cascabel	"	R. VanOver	6/58	74	16	---	I	503-W	0.8	522	65	3	78	33	89	0	254	--	49.0	2.5	C2-S1
Sec. 28	"	"	Salcedo	7/62	Dam	---	---	I	80799	0.7	505	48	17	60	16	112	0	252	--	16.2	2.0	C2-S1
Sec. 33	Benson	"	F. Williams	5/62	---	16	---	I	80565	0.6	466	43	17	62	14	102	0	228	--	43.2	2.0	C2-S1
$NE\frac{1}{4},SW\frac{1}{4}$ Sec. 34	"	"	Ellsworth	6/62	---	115	---	I-D	80575	0.5	274	30	18	17	16	27	0	166	--	20.1	0.6	C2-S1
Sec. 34	Pomerene	"	E. C. Randall	3/54	---	---	---	I	63828	0.7	519	52	4	89	22	93	0	259	--	56.9	3.2	C2-S1
T.14S., R.24E.																						
Sec. 1	Willcox	"	G. McCombs	3/59	135	25	---	I-S	568-W	0.8	565	56	12	93	73	80	0	251	--	51.6	3.0	C3-S1
T.14S., R.25E.																						
Sec. 1	"	"	Tom Martin	8/57	---	---	---	IDS	69070	4.5	3169	57	16	1003	920	550	10	622	--	91.2	:::	:::
Sec. 4	"	"	Duncan-Waddell Oil Well	6/50	1400	25	---	I-S	59137	2.4	1495	30	4	427	372	285	0	371	--	91.0	19.2	C4-S4
Sec. 5	"	"	M. J. Ferguson	11/53	40	16	---	I-S	63342	2.3	1631	112	4	424	440	282	0	366	--	75.6	10.8	C4-S3
Sec. 6	"	"	C. G. Page	1/59	---	---	---	I-D	72370	0.5	362	41	9	45	20	25	0	220	--	41.2	1.6	C2-S1
Sec. 6	"	"	D. F. Mellenbruch	6/50	25	15	---	I	59134	1.5	1036	53	15	231	92	159	0	481	--	72.1	7.3	C3-S2
Sec. 10	"	"	C. J. Lawson	7/59	---	33	---	I-S	599-W	2.7	1680	155	62	338	685	220	0	220	--	53.0	5.8	C4-S2
T.14S., R.31E.																						
Sec. 4	San Simon	"	J. S. Bryan	5/58	125	---	---	I-D	70953	0.4	303	32	3	51	19	80	T	117	--	54.5	2.4	C2-S1
Sec. 26	"	"	W. D. Benton	3/60	150	60	---	I	622-W	0.6	436	66	10	44	18	143	0	151	4	31.5	1.3	C2-S1
Sec. 33	"	"	A. Gentner	2/57	---	---	---	I	399-W	1.7	1214	97	17	257	100	450	0	293	--	64.0	6.2	C3-S2
T.15S., R.10E.																						
Sec. 28	Altar Valley	Pima	Grant Anderson	7/52	150	---	---	I	62109	0.5	312	45	4	42	30	30	17	142	--	41.4	1.6	C2-S1
Sec. 33	"	"	"	7/52	150	---	---	I	62107	0.5	322	53	4	38	38	30	17	142	--	35.6	1.4	C2-S1
Sec. 33	"	"	"	7/52	150	---	---	I	62108	0.4	278	45	4	28	30	25	0	146	--	32.1	1.1	C2-S1
Sec. 33	"	"	Grant Well	6/51	---	150	3	I	60802	0.5	345	15	8	84	80	T	19	139	--	72.1	4.3	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC x 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.15S., R.10E.																						
S½ Sec. 34	Three Points	Pima	J. R. Stevens	10/50	---	---	---	I	59439	0.4	278	15	15	39	20	T	0	188	--	46.0	1.5	C2-S1
T.15S., R.12E.																						
Sec. 2	Avra Valley	"	E. Bergman	3/53	265	75	---	IDS	62749	2.0	1372	68	4	344	140	295	0	520	--	80.0	11.0	C3-S3
Sec. 2	"	"	Samuel Cohen	9/52	200	75	---	I-D	62328	1.8	1283	98	38	211	142	203	0	590	--	53.3	4.7	C3-S2
Sec. 2	"	"	"	9/52	200	90-182	---	I-D	62281	2.0	1422	75	4	350	150	192	0	650	--	78.8	1.2	C3-S1
T.15S., R.13E.																						
Sec. 11	Tucson	"	Rev. O. McCamarena	5/61	90	36	---	I-D	78186	1.5	1224	141	32	170	55	455	0	356	14	43.3	3.4	C3-S1
Sec. 13	"	"	P. Hayden	9/56	125	85	---	---	67151	0.8	580	89	27	42	34	150	0	238	--	21.4	1.0	C3-S1
Sec. 15	"	"	R. W. Ryle	9/59	---	---	---	I-S	604-W	0.7	561	40	12	103	20	130	0	254	--	60.0	3.6	C2-S1
T.15S., R.14E.																						
Sec. 5	"	"	Joe Bankenship	4/61	1230	119	---	I-D	77971	0.8	528	87	21	33	25	200	0	159	3	19.1	0.8	C2-S1
Sec. 8	"	"	Sunnyside High School	12/59	---	---	---	I-D	74843	0.5	416	53	2	63	12	123	0	163	--	49.2	2.4	C2-S1
Sec. 8	"	"	"	12/59	---	---	---	I-D	74844	0.6	476	60	14	71	12	145	0	174	--	42.6	2.1	C2-S1
Sec. 29	"	"	Hughes Aircraft	6/61	400	100	---	I-Ind.	78424	0.5	336	39	11	37	14	50	0	183	2	36.3	1.4	C2-S1
Sec. 31	"	"	City of Tucson	8/62	50	---	SC11	I-D	80942	0.6	370	38	7	56	9	89	0	171	--	49.6	2.3	C3-S1
Sec. 31	"	"	Harley Shambaugh	6/54	120	48	---	I-D	64571	0.3	237	23	15	20	24	T	0	154	--	26.7	0.7	C2-S1
T.15S., R.16E.																						
Sec. 14	"	"	Gilbert Acosta	3/59	255	67	---	I-D	72704	0.3	206	30	5	18	6	20	0	127	--	28.9	0.7	C2-S1
T.15S., R.20E.																						
Sec. 3	San Pedro Valley	Cochise	Rex Ellsworth	6/62	---	---	---	*	80576	0.6	438	44	18	53	12	116	0	195	--	38.3	1.7	C2-S1
Sec. 9	"	"	F. Williams	6/62	---	32	---	*	80579	0.6	447	42	17	60	24	98	0	206	--	42.6	1.7	C2-S1
Sec. 20	"	"	Unknown	6/62	---	38	---	*	80578	0.7	535	42	12	92	28	90	0	270	--	56.2	3.3	C2-S1
Sec. 29	"	"	H. S. Pretzer	6/62	75	42	---	*	80573	0.8	501	87	16	33	16	208	0	141	--	20.2	0.9	C3-S1
Sec. 30	"	"	Unknown	7/62	95	23	---	*	80692	0.4	291	41	9	22	14	3	0	202	--	25.4	0.8	C2-S1
Sec. 31	"	"	M. O. Grenier	7/62	105	63	---	I-D	80844	0.5	377	37	7	56	10	50	0	216	1	50.2	2.4	C2-S1
Sec. 31	"	"	"	10/62	132	54	---	I-D	81139	0.7	514	69	10	59	12	119	0	244	1	38.7	1.9	C2-S1
T.15S., R.24E.																						
Sec. 8	Willcox	"	William Wiegand	3/59	154	26	---	I	72806	1.9	1356	74	48	311	416	260	0	244	3	64.0	7.0	C3-S2
Sec. 17	"	"	"	8/60	700	35	---	I	76993	5.2	3319	18	13	1163	1304	513	7	308	--	96.3	:::	:::
Sec. 20	"	"	John Payne	10/63	500	100	---	IDS	84010	3.6	2475	350	171	203	653	912	0	171	15	21.9	2.2	C4-S1
Sec. 29	Cochise	"	O. O. Welch	6/57	450	75	---	I	68915	0.6	414	48	22	40	24	60	0	220	--	29.1	1.3	C2-S1
Sec. 29	"	"	B. Graham	10/55	120	65	---	IDS	246-W	2.0	1412	158	80	204	520	255	0	195	--	38.0	3.3	C3-S1
Sec. 29	"	"	"	8/55	120	65	---	I-D	233-W	2.0	1374	126	73	285	400	280	0	210	--	51.0	5.0	C3-S2
Sec. 29	"	"	"	9/55	140	100	---	I	234-W	1.3	888	71	52	136	200	210	0	219	--	43.0	3.0	C3-S1
Sec. 30	"	"	W. Zummullen	1/59	98	91	---	I-S	537-W	0.7	459	54	29	22	26	120	2	190	5	21.0	0.8	C2-S1
T.15S., R.25E.																						
Sec. 26	Kansas Settlement	"	Zada Beard	6/61	515	130	1	I	78313	1.0	835	136	24	88	168	225	0	180	14	30.3	1.9	C3-S1
Sec. 34	"	"	Frank Gears	12/56	1020	---	---	I	C7236	0.3	204	26	8	22	20	50	0	78	--	32.7	2.8	C2-S1
T.15S., R.26E.																						
Sec. 6	"	"	J. D. Gilmore	4/60	---	---	---	I-D	76041	0.7	426	59	11	1	90	49	0	161	--	38.5	0.1	C2-S1
Sec. 18	"	"	Floyd Robbs	4/60	---	---	---	I-D	76042	0.5	351	46	10	41	50	27	0	176	--	36.4	1.4	C2-S1
T.15S., R.31E.																						
Sec. 11	San Simon	"	C. A. Boggs	8/56	320	150	---	I-S	350-W	0.7	502	60	15	58	12	125	0	232	--	37.0	3.7	C2-S1
T.15S., R.32E.																						
Sec. 5	Dann Springs	"	M. H. Barnes	6/55	750	60	---	I-S	206-W	0.5	333	27	2	64	26	55	0	159	--	64.0	3.2	C2-S1

*Future municipal wells

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.16S., R.10E.																						
Sec. 8	Three Points	Pima	Rancho San Xavier	4/60	---	---	---	I	632-W	0.5	284	25	5	48	18	29	0	159	--	55.4	2.3	C2-S1
Sec. 18	"	"	William King	6/61	360	---	---	I	770-W	0.4	272	5	4	69	24	17	4	149	--	83.8	5.8	C2-S1
Sec. 19	"	"	"	10/61	---	---	---	I	790-W	0.4	307	28	6	46	18	22	0	177	8	51.4	2.0	C2-S1
T.16S., R.14E.																						
Sec. 7	Sahuarita	"	Harry Foster	3/53	220	54	---	I	62753	1.6	1090	225	15	69	92	406	0	283	--	19.3	1.2	C3-S1
Sec. 18	"	"	"	3/53	220	54	---	I	62710	1.6	1096	299	7	10	90	275	0	322	T	2.6	1.2	C3-S1
Sec. 18	"	"	Joe Carrosco	6/61	110	70	---	I	764-W	1.6	1226	258	37	41	83	490	0	317	--	10.2	0.6	C3-S1
T.16S., R.16E.																						
Sec. 15	Mountain View	"	Rancho Del Lago	3/56	Stream	Pantano	Wash	I	276-W	1.1	776	74	38	97	30	315	0	222	--	38.0	2.3	C3-S1
Sec. 27	"	"	Lusk Corp.	8/62	878	412	---	D-Ind.	80906	0.8	649	24	12	148	28	151	0	286	--	74.6	6.3	C3-S2
T.16S., R.20E.																						
Sec. 27	Pomerene	Cochise	W. East	1/59	76	56	---	I	536-W	2.0	1587	106	38	315	53	680	0	395	--	62.0	1.0	C3-S1
Sec. 34	"	"	H. East	1/59	102	40	---	I	535-W	2.2	1994	238	65	265	131	880	0	415	--	40.0	0.8	C3-S1
T.16S., R.23E.																						
Sec. 23	Dragoon	"	Mrs. V. Shelton	9/53	60	40	---	IDS	63369	1.5	1055	180	8	125	80	455	0	202	--	35.9	2.5	C3-S1
Sec. 28	Pomerene	"	R. C. Bundy	2/58	93	56	---	I-D	69914	2.0	1423	190	1	239	88	640	0	264	--	52.0	4.8	C3-S2
T.16S., R.24E.																						
Sec. 20	Cochise	"	Max Click	5/61	500	---	---	I	78170	0.9	738	81	36	80	41	250	0	246	4	33.3	1.9	C3-S1
Sec. 20	"	"	J. W. Waters	9/57	---	---	---	I	444-W	0.7	470	42	27	51	65	0	0	286	--	34.0	1.5	C2-S1
Sec. 32	"	"	C. N. Havin	12/51	235	220	---	IDS	61487	0.3	234	53	4	3	18	0	0	156	--	4.1	0.1	C2-S1
T.16S., R.25E.																						
NE¼ Sec. 1	Kansas Settlement	"	Fred Pretzer*	6/52	573	---	---	I	P34	0.4	258	39	5	24	195	0	0	171	--	30.5	1.0	C2-S1
SE¼ Sec. 2	"	"	"	11/57	106	---	---	I	P26	0.5	316	75	8	6	38	24	0	103	5	5.5	0.2	C2-S1
Sec. 2	"	"	Charles Kimzey	5/61	430	75	2	I	78244	1.0	647	118	22	45	102	215	0	139	6	20.1	1.0	C3-S1
W½,NW¼ Sec. 9	"	"	C. E. Anderson	9/63	150	43	3	I-S	83918	1.8	1401	279	16	127	155	670	0	132	22	26.6	2.0	C3-S1
W½,NW¼ Sec. 9	"	"	"	3/60	150	42	---	I	75666	0.6	403	56	6	56	26	167	0	88	4	42.4	1.9	C2-S1
Sec. 9	"	"	"	12/52	55	---	---	IDS	62549	0.4	244	38	0	33	18	69	0	85	--	42.9	1.5	C2-S1
SW¼ Sec. 10	"	"	Fred Pretzer*	11/57	290	42	---	I	P15	0.5	321	80	7	55	446	90	1	93	--	34.2	1.5	C2-S1
Sec. 11	"	"	Calvin Jones	6/58	---	---	---	I-D	70954	0.9	646	81	17	92	77	228	T	151	--	42.3	5.5	C3-S1
Sec. 11	"	"	"	8/55	550	55	---	I	66090	0.6	399	48	T	736	40	115	0	122	--	93.0	:::	:::
NE¼ Sec. 12	"	"	Fred Pretzer*	11/57	445	56	---	I	P25	0.4	242	45	3	22	20	50	0	98	--	27.7	0.7	C2-S1
Sec. 12	"	"	John Bretz	10/60	734	240	4	I	77132	0.9	563	109	16	37	76	205	0	107	13	19.2	0.9	C3-S1
Sec. 13	"	"	"	10/60	162	60	2	I	77130	1.4	872	153	23	90	197	275	0	127	7	29.1	1.8	C3-S1
Sec. 13	"	"	"	10/60	700	240	3	I	77131	1.6	1195	220	30	100	141	500	0	185	19	24.3	1.7	C3-S1
SE¼ Sec. 23	"	"	Fred Pretzer*	11/57	324	---	---	I	P1	0.8	588	71	19	54	71	155	3	112	--	31.4	1.4	C3-S1
Sec. 23	"	"	Violet Shelton	2/63	225	80	---	IDS	81835	1.5	1068	184	17	121	150	422	0	161	13	33.2	2.3	C3-S1
Sec. 24	"	"	McAllister Tankford	3/56	400	120	---	I	66638	0.4	283	18	6	53	10	50	0	146	--	62.2	4.8	C4-S2
Sec. 29	"	"	JMK Ranches	4/61	200	35	---	I	749-W	0.4	252	17	4	50	10	58	2	110	1	64.8	0.5	C2-S1
T.16S., R.26E.																						
SW¼ Sec. 3	"	"	Fred Pretzer*	11/57	---	125	---	I	P20	0.3	200	32	1	21	8	20	0	117	5	57.2	1.3	C2-S1
SE¼ Sec. 4	"	"	"	11/57	500	---	---	I	P21	0.4	259	37	19	11	14	80	0	107	5	12.3	0.3	C2-S1
SE¼ Sec. 8	"	"	"	11/57	458	92	---	I	P18	0.4	310	56	3	34	50	62	0	103	--	32.6	1.1	C2-S1
SE¼ Sec. 11	"	"	"	11/57	---	170	---	I	P19	0.5	350	86	4	11	25	150	0	72	1	9.3	3.1	C2-S1
Sec. 12	"	"	B. E. Belew	4/55	600	98	---	I-S	189-W	0.6	398	48	9	55	34	115	0	137	--	43.0	1.8	C2-S1
Sec. 14	"	"	A. M. Creighton	5/62	---	240	---	I	80540	0.3	264	16	2	56	12	30	0	146	2	71.7	0.5	C2-S1
Sec. 15	"	"	B. E. Belew	1/54	600	145	---	I	63562	0.5	347	38	0	45	16	119	0	129	--	50.7	1.8	C2-S1
Sec. 16	"	"	F. Heidel	4/55	580	140	---	I-S	188-W	0.6	398	27	15	69	30	125	0	132	--	54.0	2.6	C2-S1

*Collected by Fred Pretzer

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.16S., R.26E.																						
SE¼ Sec. 18	Kansas Settlement	Cochise	Fred Pretzer*	11/57	---	73	---	I	P11	0.5	353	28	1	63	15	88	0	105	--	64.8	3.3	C2-S1
NE¼,SE¼ Sec. 22	"	"	Ed Jay & Brothers	7/62	1000	---	6	I	80822	0.6	384	20	4	88	14	131	0	124	1	74.2	4.6	C2-S1
NE¼,NE¼ Sec. 22	"	"	"	7/62	850	---	4	I	80828	0.7	413	55	9	52	16	155	0	124	2	39.3	2.0	C2-S1
N½ Sec. 22	"	"	"	7/62	600	---	5	I	80825	0.6	362	39	6	58	16	131	0	110	1	50.7	2.3	C2-S1
NE¼ Sec. 23	"	"	Fred Pretzer*	----	---	---	---	I	P7	0.4	271	40	1	36	12	60	0	120	--	42.8	1.5	C2-S1
Sec. 26	"	"	G. Anderson	4/56	210	160	---	I	296-W	0.5	349	32	2	51	20	110	0	134	--	44.0	1.5	C3-S1
NE¼ Sec. 26	"	"	Fred Pretzer*	11/57	---	73	---	I	P6	0.5	366	31	3	79	19	110	0	120	--	65.5	3.4	C2-S1
NE¼ Sec. 30	"	"	"	11/57	---	70	---	I	P4	0.4	252	20	1	54	9	42	0	117	--	68.4	3.2	C2-S1
N½ Sec. 33	"	"	R. W. Grim	3/60	550	175	---	I	75674	0.4	239	20	3	44	8	45	2	117	0	62.3	2.4	C2-S1
Sec. 33	"	"	John Ferris	9/62	---	---	Grim#1	---	80821	0.4	251	17	5	46	8	34	0	139	1	61.3	2.6	C2-S1
Sec. 34	"	"	William Gaskill	5/58	240	143	---	I-S	488-W	0.3	225	6	12	39	17	T	0	151	--	57.0	1.7	C2-S1
T.16S., R.29E.																						
Sec. 26	Dos Cabezas	"	C. T. Kraft	2/58	78	12	---	I-D	70016	0.3	228	17	12	31	18	59	0	90	--	42.3	2.0	C2-S1
Sec. 26	"	"	"	2/58	78	12	---	I-D	70017	0.3	218	20	6	32	15	50	0	94	--	48.0	1.6	C2-S1
T.16S., R.32E.																						
Sec. 27	San Simon Valley	"	Cienega Ranch	5/62	300	150	---	I	80495	0.4	252	40	6	20	6	43	0	136	T	26.0	0.6	C2-S1
Sec. 34	"	"	Wammell	5/62	300	140	---	I	80498	0.4	264	50	9	4	6	8	0	171	16	4.7	0.2	C2-S1
T.17S., R.13E.																						
Sec. 12	Sahuarita	Pima	L. Delgado	4/57	200	130	---	---	68240	1.8	1225	197	43	117	190	440	0	238	--	27.5	2.0	C3-S1
Sec. 18	"	"	Agricultural Engineering Department	4/59	---	---	---	I-D	73092	0.6	397	38	16	43	4	20	0	273	3	36.6	1.4	C2-S1
Sec. 36	"	"	J. B. Bull	9/52	200	---	8	I	62317	0.7	509	113	4	21	22	117	0	232	--	13.2	0.5	C2-S1
Sec. 36	"	"	"	9/52	200	---	9	I	62318	0.9	639	150	4	21	24	184	0	256	--	10.4	0.4	C3-S1
Sec. 36	"	"	"	9/52	254	---	10	I-D	62319	0.5	377	68	0	37	12	75	0	185	--	32.1	1.2	C2-S1
T.17S., R.14E.																						
Sec. 8	"	"	Gus Altfillisch	4/53	244	125	---	I	62788	0.5	330	52	0	42	12	100	0	124	--	41.1	1.5	C2-S1
Sec. 17	"	"	Orland Fiandaca	6/52	405	110	---	I-D	62048	0.8	527	83	8	56	36	117	0	227	--	33.5	1.6	C3-S1
Sec. 30	"	"	W. I. Thomas	6/52	---	125	3	I	62023	0.8	584	143	11	1	30	150	0	249	--	00.4	0.02	C3-S1
Sec. 30	"	"	"	6/52	---	106	2	I	62024	0.9	592	143	11	5	32	150	0	251	--	2.6	0.1	C3-S1
T.17S., R.17E.																						
Sec. 21	Vail	"	B. Wood TM Ranch	8/57	---	---	Spring	---	68997	1.8	1281	200	72	69	20	720	0	200	--	15.8	1.1	C3-S1
T.17S., R.18E.																						
Sec. 1	Pantano	"	R. E. Bonnett	8/52	135	27	---	IDS	62214	0.5	322	68	4	18	28	105	0	98	--	17.2	0.5	C2-S1
T.17S., R.20E.																						
Sec. 3	Benson	Cochise	W. B. Wood	8/53	1000	Artesian		I	63120	0.6	403	45	4	63	18	50	0	224	--	51.4	2.3	C2-S1
Sec. 24	"	"	S. Gibson	11/57	55	---	---	I	449-W	1.8	1256	137	32	191	67	536	0	293	--	47.0	3.8	C4-S1
Sec. 25	"	"	V. M. Salmon	3/58	350-400	Artesian		IDS	70495	0.5	337	39	7	39	17	0	0	234	--	40.0	1.7	C2-S1
T.17S., R.21E.																						
Sec. 31	St. David	"	Mayberry Farms	12/59	110	---	---	IDS	74824	1.2	904	74	19	146	16	125	0	450	74	54.6	3.9	C3-S1
Sec. 32	"	"	J. S. McRae	3/57	---	21	---	I	402-W	0.4	269	29	4	41	24	T	0	171	--	51.0	1.8	C2-S1
T.17S., R.22E.																						
Sec. 4	"	"	L. L. Garrison	5/57	220	Artesian		IDS	68646	0.3	189	17	12	16	10	T	0	134	--	27.2	1.0	C2-S1
T.17S., R.24E.																						
Sec. 3	Cochise	"	C. N. Havin	12/51	180	160	---	IDS	61488	0.3	218	45	4	8	20	T	0	141	--	11.9	0.4	C2-S1
Sec. 5	"	"	"	12/51	260	245	---	IDS	61486	0.3	185	30	8	10	20	0	0	117	--	16.6	0.4	C2-S1
Sec. 5	"	"	J. B. Stevenson	10/63	425	232	Pearce	I	84011	0.7	384	48	16	36	20	87	0	171	6	29.8	1.2	C2-S1
T.17S., R.25E.																						
Sec. 9	Pearce	"	H. H. Morgan	2/54	400	50	---	I	63827	0.6	408	45	11	58	26	61	0	207	--	44.4	2.0	C2-S1
Sec. 29	"	"	R. M. King	6/55	650	215	---	I	66035	1.6	1097	122	47	138	70	500	0	220	--	37.5	2.6	C3-S1

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Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.17S., R.31E.																						
Sec. 25	Portal	Cochise	T. H. Troller	9/56	300	---	---	I	67198	0.9	654	74	34	62	14	250	0	220	--	29.2	1.5	C3-S1
T.18S., R.9E.																						
Sec. 11	Altar Valley	Pima	Howell Manning	6/51	---	---	---	I-S	60806	0.4	308	53	12	9	10	T	0	224	--	9.6	0.4	C2-S1
T.18S., R.13E.																						
Sec. 1	Sahuarita	"	J. B. Bull	9/52	200	---	1	I	62311	0.7	473	53	0	55	20	111	0	232	--	47.4	2.1	C2-S1
Sec. 1	"	"	"	9/52	250	---	3	I	62312	0.8	545	143	0	5	20	128	0	249	--	2.9	0.1	C3-S1
Sec. 1	"	"	"	9/52	200	---	4	I-D	62313	0.8	580	135	4	15	20	111	0	295	--	8.4	0.3	C3-S1
Sec. 1	"	"	"	9/52	253	---	6	I	62314	0.8	561	120	8	23	22	134	0	254	--	13.0	0.6	C3-S1
Sec. 1	"	"	"	9/52	177	---	7	I-D	62316	0.9	598	135	4	23	20	120	0	266	--	12.3	0.6	C3-S1
Sec. 1	"	"	"	9/52	250	---	12	I	62321	0.7	491	98	4	32	18	119	0	220	--	2.1	0.9	C2-S1
Sec. 9	Continental	"	Howell Manning	3/51	150	40	---	IDS	60281	1.2	817	113	4	120	32	282	0	266	--	51.1	3.0	C3-S1
T.18S., R.14E.																						
Sec. 7	Sahuarita	"	J. B. Bull	9/52	257	---	11	I	62320	0.8	563	128	4	32	20	147	0	232	--	17.1	0.7	C2-S1
Sec. 8	"	"	"	9/52	400	---	13	I	62322	0.5	312	60	4	25	16	58	0	149	--	24.6	0.8	C2-S1
Sec. 8	"	"	"	5/52	360	250	---	I	61986	0.4	307	68	8	3	6	73	0	149	--	3.1	0.1	C2-S1
T.18S., R.15E.																						
Sec. 23	Helvetia	"	E. G. Deisler	5/61	400	---	---	IDS	78168	0.3	232	31	9	21	18	26	0	125	--	28.6	0.8	C2-S1
T.18S., R.17E.																						
Sec. 13	Benson	"	J. S. Greenway	11/50	---	Artesian		IDS	59685	0.6	421	45	4	59	10	52	0	251	--	49.9	2.3	C2-S1
T.18S., R.20E.																						
Sec. 20	Curtiss	Cochise	Z. Morgan	3/57	100	Artesian		I	401-W	0.8	553	29	11	131	38	240	19	85	--	71.0	5.4	C3-S1
T.18S., R.21E.							North															
Sec. 4	St. David	"	R. T. Johnson	5/51	200	Artesian		IDS	60720	0.5	335	23	4	40	34	10	0	124	--	54.0	2.0	C2-S1
Sec. 5	"	"	V. E. Rausch	10/59	95	---	---	I-D	74320	1.0	788	59	14	144	44	70	0	454	--	60.3	4.5	C3-S1
Sec. 8	"	"	Mrs. C. F. Deiro	3/50	480	---	---	I-D	56777	0.3	188	30	4	12	4	T	0	132	--	22.1	0.5	C2-S1
Sec. 16	Curtiss	"	Dr. J. W. Hesser	4/57	100	---	---	I	409-W	0.5	348	41	13	30	T	T	0	263	--	30.0	0.8	C2-S1
Sec. 17	"	"	"	4/57	78	---	---	I	410-W	0.9	643	62	29	74	T	175	0	303	--	37.0	1.9	C3-S1
Sec. 17	"	"	J. M. Hesser	1/54	---	---	---	IDS	63718	0.6	389	60	0	45	14	40	0	227	--	39.3	1.6	C2-S1
Sec. 18	"	"	William Farmer	4/57	605	---	---	I	415-W	0.6	412	44	21	37	T	98	0	212	--	29.0	1.0	C2-S1
W½,SE¼ Sec. 28	"	"	St. David Irrigation District	9/63	125	26	1	I	83979	0.5	386	41	10	53	16	70	6	190	0	44.2	2.0	C4-S1
W½,SE¼ Sec. 28	"	"	"	9/63	150	26	2	I	83980	0.6	400	42	12	54	12	87	5	188	0	43.3	1.9	C4-S1
Sec. 34	St. David	"	M. Curtis	7/56	600	---	---	I	331-W	0.2	155	10	5	23	12	T	0	105	--	50.0	1.3	C1-S1
T.18S., R.26E.																						
Sec. 25	Elfrida	"	Lewis Grizzle	6/55	600	---	---	I	66025	0.5	343	25	4	69	50	T	0	195	--	65.5	3.3	C2-S1
T.18S., R.29E.																						
Sec. 14	Pearce	"	C. T. R. Bates	6/59	16	8	---	IDS	73370	0.3	244	18	6	47	4	125	0	44	--	59.3	2.5	C2-S1
Sec. 24	Chiricahua Mts	"	H. D. Burrall	5/58	15	7	---	I-D	70845	0.01	88	16	8	12	7	T	0	44	1	26.2	0.6	C1-S1
T.19S., R.1E																						
Sec. 8	Papago Reservation	Pima	H. C. Schwalen	6/58	---	236	3	I-D	71082	0.5	376	21	1	90	52	T	T	207	5	77.5	5.5	C2-S1
T.19S., R.16E.																						
Sec. 21	Sonoita	"	D. J. Fillman	4/61	286	261	---	I-S	77714	0.4	292	54	10	7	14	9	0	195	3	7.8	0.3	C2-S1
T.19S., R.18E.																						
Sec. 33	"	"	Landmark Supply	7/52	353	145	---	I	62102	0.6	425	75	4	34	28	20	0	264	--	26.6	0.8	C2-S1
T.19S., R.24E.																						
Sec. 28	Tombstone	Cochise	Mars Ranch	9/53	---	---	---	I-D	63223	0.6	389	52	4	48	24	10	0	251	--	41.5	1.8	C2-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	EC X 10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.19S., R.26E.																						
Sec. 17	Sulphur Springs Valley	Cochise	Frank Moore	7/51	114	50	---	I	60949	0.4	280	53	8	15	38	15	0	151	--	16.4	0.5	C2-S1
Sec. 20	Elfrida	"	J. F. Dunn	12/60	100	80	1	I-S	701-W	1.2	854	141	23	78	144	132	0	336	--	27.4	1.6	C3-S1
Sec. 20	"	"	"	12/60	350	150	2	I-S	702-W	0.5	270	26	2	46	10	25	0	161	--	57.5	2.2	C2-S1
Sec. 20	"	"	"	12/60	150	80	3	I-S	703-W	0.7	438	47	12	74	36	98	0	171	--	49.0	2.6	C2-S1
Sec. 20	"	"	"	12/60	500	100	4	I-S	704-W	0.3	188	15	2	36	10	14	4	107	--	63.0	2.0	C2-S1
T.20S., R.12E.																						
Sec. 4	Amado	Santa Cruz	Ann B. Warner	9/59	---	---	---	I-S	603-W	0.4	313	41	6	33	8	20	0	197	--	35.9	1.3	C2-S1
Sec. 12	"	"	H. A. Tidmore	10/59	150	---	---	I-S	609-W	0.7	711	85	17	178	18	110	0	298	5	58.0	4.5	C2-S1
T.20S., R.16E.																						
Sec. 2	Sonoita	"	Frank Harrison	1/52	300	128	---	I	61587	0.6	413	60	8	41	30	10	0	264	--	32.7	1.4	C2-S1
T.20S., R.19E.																						
Sec. 12	Ft. Huachuca	Cochise	G. R. Buwen	8/58	---	---	---	I-D	71523	1.6	1150	192	94	1	10	680	0	173	--	0.2	0.1	C3-S1
T.20S., R.22E.																						
Sec. 11	Tombstone	"	City of Tombstone	9/62	700	450	---	I-D	81112	0.7	491	72	33	15	55	46	0	239	31	9.1	0.5	C2-S1
T.20S., R.26E.																						
Sec. 8	Elfrida	"	S. W. Pohle	4/52	120	30	---	I-D	61885	0.4	263	45	4	21	24	10	0	159	--	26.0	0.7	C2-S1
Sec. 16	"	"	T. S. Place	6/52	---	---	---	I-D	62051	0.5	330	69	8	12	26	50	0	166	--	11.2	0.4	C2-S1
T.20S., R.27E.																						
Sec. 10	"	"	W. M. Schroder	4/57	---	---	---	IDS	68458	0.3	200	34	4	23	20	T	0	149	--	33.0	0.9	C2-S1
T.21S., R.10E.																						
Sec. 18	Aravaca	Pima	L. Wilton	6/57	---	---	---	---	68716	0.7	499	58	27	18	30	T	0	366	--	13.2	0.5	C2-S1
T.21S., R.13E.																						
Sec. 17	Carmen	Santa Cruz	Ed Clark	7/50	---	---	---	I	59143	1.0	703	98	11	88	20	242	0	244	--	39.7	2.0	C3-S1
Sec. 20	"	"	W. Whitcomb	7/50	---	---	---	I	59142	1.0	688	98	11	84	16	257	0	222	--	38.6	2.1	C3-S1
Sec. 32	"	"	J. Chiapetta	1/56	---	50	---	I-S	267-W	0.8	553	96	30	12	20	175	0	220	--	6.7	0.2	C3-S1
T.21S., R.19E.																						
Sec. 30	Ft. Huachuca	Cochise	W. S. Brown	9/52	130	85	---	I-D	62368	0.6	426	83	4	25	26	20	0	268	--	19.5	0.8	C2-S1
T.21S., R.21E.																						
Sec. 26	Buena	"	Sabrina	11/57	250	---	---	I	450-W	0.4	310	57	11	7	19	0	0	216	--	7.5	0.2	C2-S1
T.21S., R.25E.																						
Sec. --	McNeal	"	B. B. Owenby	7/58	---	---	---	I	71166	4.3	2992	365	81	515	930	720	T	381	--	47.3	6.4	C4-S2
T.21S., R.26E.																						
Sec. 25	"	"	Duane Heath	5/52	---	---	---	I-D	61973	1.2	836	128	15	93	208	92	0	300	--	34.6	2.1	C3-S1
Sec. 30	"	"	Russel Anderson	5/52	---	---	---	I-D	61972	1.5	1010	83	8	209	100	222	0	338	--	65.3	6.0	C3-S2
T.22S., R.13E.																						
Sec. 5	Baca Float	Santa Cruz	J. Chiapetta	1/56	---	50	South	I-S	268-W	1.0	674	113	26	39	24	240	0	232	--	18.0	0.8	C3-S1
Sec. 5	"	"	Farmers Investment Co.	2/61	66	17	---	I	77494	0.7	502	77	16	38	16	116	0	220	21	24.1	1.1	C2-S1
Sec. 9	"	"	"	2/61	82	16	---	I	77495	0.5	390	60	11	31	16	74	0	181	19	25.4	1.0	C2-S1
Sec. 28	"	"	"	2/61	83	8	---	I	77496	0.5	396	60	10	35	16	78	0	188	10	28.3	1.3	C2-S1
Sec. 28	"	"	"	2/61	66	4	---	I	77497	0.7	501	86	18	26	14	147	0	202	8	16.1	0.7	C2-S1
T.22S., R.16E.																						
Sec. 5	Patagonia	"	R. B. Ensign	8/59	---	---	---	I	74075	1.5	766	155	17	35	18	285	0	256	--	14.1	0.8	C3-S1
Sec. 7	"	"	H. K. Sorter	5/62	425	210	---	IDS	80473	0.7	591	88	25	45	24	233	0	171	5	23.2	1.0	C2-S1
T.22S., R.26E.																						
Sec. 4-5	McNeal	Cochise	E. M. Downs	8/55	120	40	---	IDS	66092	0.8	532	40	13	99	60	100	0	220	--	58.3	3.6	C3-S1

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)

Legal Description	Town	County	Identifying Name	Date	Well Depth (feet)	Static Level (feet)	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
T.22S., R.28E.																						
Sec. 13	Douglas	Cochise	Charles Watson	11/59	100	60	---	I-D	74587	0.8	650	74	23	68	20	83	0	342	40	34.6	1.8	C3-S1
T.23S., R.15E.																						
Sec. 31	Nogales	Santa Cruz	S. Granger	9/57	30	Farm Pond		I-S	447-W	0.7	496	64	15	58	93	15	0	251	1	36.0	1.7	C2-S1
T.23S., R.21E.																						
NE¼,NE¼ Sec. 19	Hereford	Cochise	Mrs. M. Hoffschildt	4/57	120	100	---	---	68344	0.5	343	61	14	7	12	25	0	224	--	6.7	0.3	C2-S1
T.23S., R.22E.																						
Sec. 21	"	"	E. Lehnel	4/56	264	27	---	I-S	282-W	0.5	364	19	15	60	26	T	0	244	--	55.0	2.7	C2-S1
T.23S., R.26E.																						
Sec. 1	McNeal	"	E. W. Forlsman	5/52	80	40	---	IDS	61969	0.9	607	90	11	76	96	114	0	220	--	37.9	2.0	C3-S1
Sec. 10	"	"	B. B. Owenby	9/60	110	48	---	IDS	77102	3.0	2156	198	65	426	678	390	0	390	9	54.8	6.8	C4-S2
Sec. 10	"	"	D. L. Haymore	3/59	130	100	---	I-S	549-W	1.2	745	80	22	113	137	90	0	303	--	46.0	2.8	C3-S1
Sec. 10	"	"	G. H. Bayle Jr.	6/56	57	40	---	I	321-W	7.3	5073	730	229	828	2900	116	0	270	--	39.4	:::	:::
Sec. 10	"	"	D. Heath	1/55	100	47	---	I-S	113-W	1.3	904	135	30	106	240	125	0	268	--	36.0	2.2	C3-S1
Sec. 23	Douglas	"	D. J. Pollak	5/62	145	64	---	I-D	80478	0.6	377	46	13	40	40	9	0	229	--	33.8	1.3	C2-S1
T.23S., R.27E.																						
Sec. 5	Sulphur Springs Valley	"	Fred Price	10/54	100	61	---	I-D	64915	0.8	590	76	23	71	136	50	0	234	--	35.1	1.9	C3-S1
Sec. 25	Douglas	"	F. W. Adams	11/59	180	135	---	I-D	74610	0.5	357	7	3	101	16	50	10	176	4	89.0	2.7	C2-S2
T.24S., R.22E.																						
Sec. 5	Palominas	"	J. Clinton	3/58	325	55	H-1	I	470-W	0.5	377	22	10	71	47	0	0	227	--	61.6	3.2	C2-S1
T.24S., R.24E.																						
Sec. 11	Warren	"	C. D. Ellis	7/60	300	190	---	IDS	76646	1.1	662	99	44	49	244	26	0	195	5	19.9	1.1	C3-S1
Sec. 17	"	"	Howard Grant	4/52	100	---	---	I-D	61934	1.2	807	165	11	51	40	320	T	220	--	19.4	1.0	C3-S1
Sec. 18	"	"	A. W. Decker	5/60	120	---	1	I	648-W	1.5	1076	262	27	18	24	725	0	20	--	0.5	0.2	C3-S1
T.24S., R.26E.																						
Sec. 8	Paul Spur	"	F. L. Christiansen	4/50	195	165	---	IDS	58068	0.5	363	68	0	25	26	T	0	244	--	24.2	0.7	C2-S1
T.24S., R.27E.																						
Sec. 10	Douglas	"	L. R. Adams	4/56	---	---	1	I-S	307-W	0.9	639	13	8	191	160	170	T	98	--	86.0	10.6	C3-S2
Sec. 11	Pirtleville	"	R. G. Bingman	9/56	---	---	---	I	C6973	1.2	850	111	39	90	172	140	0	288	10	30.9	1.9	C3-S1
T.24S., R.28E.																						
Sec. 7	Douglas	"	H. T. Verney	3/54	---	---	---	I-D	64045	0.7	493	68	4	66	46	40	0	268	--	43.3	2.0	C2-S1
								MISCELLANEOUS														
----------	--------	--------	Colorado River	8/63	---	---	---	I	-----	1.0	----	(6.3 e.p.m.)		92	88	268	-	146	--	38.7	2.3	C3-S1
----------	--------	Mohave	Hoover Dam *	11/62	---	---	---	I	26514	1.1	745	93	28	100	86	303	0	149	--	39.0	2.3	C3-S1
----------	--------	"	" *	4/63	---	---	---	I	27193	1.1	736	90	27	98	79	289	0	160	--	39.0	2.3	C3-S1
----------	--------	--------	Kaibab Reservation	11/61	---	---	Tribal Well	---	-----	3.0	----	(22.8 e.p.m.)		317	96	1286	-	428	--	37.7	4.1	C4-S2
----------	Keams Canyon	Navajo	Hospital	3/62	---	---	New	---	-----	2.5	----	(0.6 e.p.m.)		541	330	859	15	300	--	97.5	42.0	:::
----------	"	"	Coal Mine	3/62	---	---	New	---	-----	3.2	----	(0.7 e.p.m.)		697	500	514	13	364	--	97.9	53.0	:::
----------	--------	Mohave	Needles Bridge *	10/62	---	---	---	I	26484	1.1	774	91	28	104	92	310	0	149	--	40.0	2.4	C3-S1
----------	--------	"	" *	11/62	---	---	---	I	26489	1.1	768	91	28	106	92	310	T	155	--	40.0	2.5	C3-S1
----------	--------	"	" *	4/63	---	---	---	I	27102	1.1	763	94	27	102	85	307	0	156	--	39.0	2.4	C3-S1
T.7N., R.21W.																						
Sec. 14	Parker	Yuma	Indian Service	8/63	---	---	P-7	Drain	-----	3.0	----	(16.5 e.p.m.)		336	410	748	-	279	--	47.0	5.0	C4-S2
Sec. 14	"	"	"	8/63	---	---	P-8	Drain	-----	4.4	----	(24.6 e.p.m.)		524	775	944	-	401	--	48.1	6.4	C4-S2
Sec. 23	"	"	"	8/63	---	---	P-9	Drain	-----	4.8	----	(27.5 e.p.m.)		696	905	1045	-	408	--	48.5	7.0	C4-S3

*Analyses furnished by U. S. Bureau of Reclamation

Table 5 Continued
Chemical Analyses of Waters Used Primarily for Irrigation Purposes in Arizona
(Analyses in parts per million except where indicated)
MISCELLANEOUS

Legal Description	Town	County	Identifying Name	Date	Well Depth	Static Level	Well No.	Chief Use	Lab. No.	ECX10^3 at 25°C.	Total Soluble Salts	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Chloride (Cl)	Sulfate (SO_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Nitrate (NO_3)	Sodium %	Sodium Adsorption Ratio (SAR)	Water Class
----------	Phoenix	Maricopa	U. S. Geological Survey	10/63	Salt River above confluence with Verde River			I	84114	1.4	729	49	16	200	182	51	8	166	1	67.6	6.4	C3-S2
----------	"	"	"	10/63	Verde River above confluence with Salt River			I	84113	0.6	440	44	26	39	25	67	0	239	0	27.8	1.2	C2-S1
----------	Pipe Springs	Mohave	Pipe Springs National Monument	4/61	---	---	---	---	-----	0.5	----	(3.6 e.p.m.)		27	26	34	-	206	--	24.6	0.9	C2-S1
----------	Polacca	Navajo	Polacca	3/62	---	---	2	---	-----	2.4	----	(0.6 e.p.m.)		547	228	504	-	498	--	97.7	45.0	:::
----------	St. Johns	Maricopa	St. Johns Irrigation Co.	9/54	---	---	---	I	64753	3.1	2227	130	58	564	898	140	0	437	--	68.8	10.5	C4-S3
----------	Tucson	Pima	Santa Cruz Irrigation District	9/63	120	75	2	I	83751	1.5	1464	142	31	249	82	545	0	361	54	57.7	4.8	C3-S2
----------	--------	Yuma	Wellton - Mohawk*	11/62	---	---	---	Drain	26497	2.6	1804	161	58	341	435	508	T	304	--	54.0	5.9	C4-S2
----------	--------	"	" *	11/62	---	---	---	Drain	26498	9.4	6320	488	208	1452	2654	1137	0	381	--	60.0	14.0	:::
T.15S., R.23E.**																						
SE¼,SE¼ Sec. 26	Yuma	"	U. S. Bureau of Reclamation	7/63	All American Canal at Reservation Main Canal turnout - California			I	82669	1.2	751	93	29	97	114	250	1	166	1	37.4	2.2	C3-S1
----------	"	"	"*	6/61	Yuma Main Canal			I	Y-1B	1.2***	840	---	31	120	105	300	(138 p.p.m.)		--	----	---	-----
----------	"	"	"*	7/61	"			I	Y-1B	1.1***	770	88	31	83	110	300	(130 p.p.m.)		--	34.1	2.1	C3-S1
----------	"	"	"*	5/61	"			I	Y-1B	1.1***	800	90	44	200	120	360	(123 p.p.m.)		--	51.7	4.3	C3-S1
----------	"	"	"*	11/61	"			I	Y-1B	1.2***	870	96	33	---	143	325	(138 p.p.m.)		--	----	---	-----
T.16S., R.22E.**																						
NW¼,NE¼ Sec. 35	"	"	"	7/63	" Below Colorado River siphon, on Right Bank at Yuma, Ariz.			I	82670	1.3	790	95	28	110	124	268	2	161	3	40.5	2.5	C3-S1
----------	"	"	"*	6/61	Colorado River above confluence with Gila River			I	Y-1A	1.3***	910	105	24	130	123	350	(145 p.p.m.)		--	43.8	3.0	C3-S1
----------	"	"	"*	7/61	"			I	Y-1A	1.3***	890	97	31	122	117	320	(145 p.p.m.)		--	41.7	2.7	C3-S1
----------	"	"	"*	8/61	"			I	Y-1A	1.4***	960	96	32	---	144	300	(139 p.p.m.)		--	----	---	-----
----------	"	"	"*	9/61	"			I	Y-1A	1.5***	1040	109	36	120	155	500	(151 p.p.m.)		--	38.3	2.6	C3-S1
----------	"	"	"*	10/61	"			I	Y-1A	1.4	960	105	39	---	160	350	(158 p.p.m.)		--	----	---	-----
----------	"	"	"*	6/61	Gila River above confluence with Colorado River			I	Y-8	9.2***	6430	424	258	1260	2500	825	(170 p.p.m.)		--	56.3	:::	:::
----------	"	"	"*	7/61	"			I	Y-8	8.6***	6050	378	256	1500	2750	980	(141 p.p.m.)		--	62.0	:::	:::
----------	"	"	"*	8/61	"			I	Y-8	7.6***	5330	405	199	1240	2050	875	(242 p.p.m.)		--	58.1	:::	:::
----------	"	"	"*	9/61	"			I	Y-8	8.5***	5960	480	207	1140	2550	1000	(245 p.p.m.)		--	54.7	:::	:::

*Analyses furnished by U. S. Bureau of Reclamation
**San Bernardino meridian
***Calculated

Table 6
Casing and Perforation Data on Selected Arizona Wells

Legal Description	Identifying Name	Well No.	Lab. No.	Casing Depth (feet)	Perforation Depth (feet)
T.3N., R.1E.					
Sec. 4	J. G. Boswell Co.	4A	73743	1000	240
Sec. 5	"	5B	73746	1016	225
Sec. 6	"	6B	73748	1200	275
Sec. 7	"	7A	73749	478	115
Sec. 8	"	8C	73751	474	155
Sec. 9	"	9A	73753	1006	350
Sec. 17	"	17C	73756	630	245
Sec. 17	"	17D	73757	1006	350
Sec. 19	"	19B	73760	750	280
Sec. 32	"	32A	73764	1200	180
Sec. 32	"	32B	73765	1000	350
Sec. 33	"	33A	73766	1000	210
Sec. 33	"	33B	73767	1000	200
Sec. 33	"	33C	73768	1200	300
T.1N., R.1W.					
Sec. 29	Buckeye Irrigation Co.	2A	83702	220	50-170
T.1N., R.2W.					
Sec. 26	"	3M	83709	631	55-625
Sec. 28	"	8M	83712	186	50-180
Sec. 29	"	9M	83713	180	60-145
T.1N., R.3W.					
Sec. 34	"	17M	83721	798	60-694
Sec. 36	"	13M	83717	158	45-156
T.1S., R.2W.					
Sec. 6	"	4S	83698	710	26-700
T.1S., R.3W.					
Sec. 2	"	6S	83700	86	25- 80
Sec. 5	"	18M	83722	175	42-145
T.1S., R.4W.					
Sec. 1	"	21M	83723	206	40-190
Sec. 2	"	23M	83725	184	40-150
Sec. 8	"	26M	83727	240	55-210
Sec. 18	"	5L	80869	160	25-150
T.1S., R.5W.					
Sec. 1	"	28M	83729	202	86-192
T.13S., R.13E.					
Sec. 23	Flowing Wells Irrigation District	66	67346	210'6"	88-205
Sec. 26	"	60	67340	220	------
Sec. 26	"	61	67341	210'6"	60-205
Sec. 26	"	63	67343	176'6"	59-172
Sec. 26	"	64	67344	212'5"	------
Sec. 34	"	65	67345	243	------
Sec. 35	"	59	67339	197	------
Sec. 35	"	62	67342	179'6"	1-178
T.1N., R.2W.					
Sec. 1	Goodyear Farms	1AS	82101	756	730
T.2N., R.1W.					
Sec. 2	"	2B	82103	926	900
Sec. 2	"	2F	82105	720	704
Sec. 2	"	2H	82107*	840	730
Sec. 12	"	4AL	82111	1002	976
Sec. 14	"	14AL	82117	720	704
Sec. 19	"	19B	82119	966	948
Sec. 19	"	19D	82121	722	566
Sec. 20	Goodyear Farms	20B	82123	790	629
Sec. 26	"	26A	82133	702	686
Sec. 27	"	27A	82134	902	876
Sec. 28	"	28A	82136	593	560
Sec. 29	"	29A	82137	800	647
Sec. 30	"	30A	82138	762	742
Sec. 30	"	30E	82141	442	422
Sec. 31	"	31A	82142	914	884
Sec. 31	"	31B	82143	766	748
Sec. 33	"	33A	82145	318	278
Sec. 33	"	33C	82147	926	912
Sec. 34	"	34A	82148	386	362
Sec. 34	"	34B	82149	1014	992
T.2N., R.2W.					
Sec. 24	"	24A	82125	582	565
Sec. 25	"	25A	82129	928	873
Sec. 25	"	25B	82130	578	558
Sec. 25	"	25D	82132	564	564
Sec. 36	"	36A	82151	510	460
Sec. 36	"	36C	82152	648	622
Sec. 36	"	36D	82153	902	887
T.2N., R.2W.					
Sec. 10	Maricopa Water District	11-10	82641	1000	160-990
Sec. 22	"	13-22	82542	492	340-480
Sec. 27	"	15-27	82643	1000	138-990
T.3N., R.2W.					
Sec. 10	"	5-10	82638	1000	276-990
Sec. 12	"	5-12-E	82644	736	204-714
Sec. 22	"	7-22	82637	1000	207-990
Sec. 36	"	9-36	82634	1000	160-990
T.4N., R.1W.					
Sec. 21	"	A-21-E	82640	998	185-998
Sec. 26	"	3-26	82639	857	210-847
Sec. 29	"	1-29	82636	990	180-980
T.2S., R.7E.					
SE¼,NE¼ Sec. 20	Queen Creek Area	1(Nelson)	83692	985	------
T.2S., R.8E.					
NE¼,SE¼ Sec. 16	"	2(Schnepf)	83686	600	250-600
NE¼,NE¼ Sec. 27	"	3(Shahan)	83683	1008	550-1008
NE¼,NE¼ Sec. 32	"	4(Combs)	83684	1010	500-1010
T.3S., R.8E.					
NE¼,NE¼ Sec. 25	"	5(L-4 Ranch)	83689	748	300-730
T.1N., R.1W.					
Sec. 2	Roosevelt Irrigation District	1 7/8W-6N	-----	650	650
Sec. 7	"	5 5/8W-4N	83566	266	266
Sec. 15	"	2 7/8W-3 1/4N	83563	203	203
T.1N., R.2W.,					
Sec. 8	"	10W-4 1/4N	83554	306	306
Sec. 13	"	6 5/8W-3N	83569	1123	1123
Sec. 15	"	9W-3N	83571	209	209
Sec. 20	"	11W-3N	83572	206	206
T.1N., R.3W.					
Sec. 13	"	13W-3 1/8N	83558	404	404
Sec. 19	"	18W-2 1/2N	83559	300	300
Sec. 27	"	15W-1 1/2N	83576	178	178
Sec. 28	"	16W-1N	83577	206	206

*Abandoned 1963. Total Salts 15,405

Table 6 Continued
Casing and Perforation Data on Selected Arizona Wells

Legal Description	Identifying Name	Well No.	Lab. No.	Casing Depth (feet)	Perforation Depth (feet)
T.1N., R.3W.					
Sec. 31	Roosevelt Irrigation District	18W-3/4N	83580	221	221
T.1N., R.4W.					
Sec. 20	"	22 5/8W-2 3/8N	83561	1050	1050
Sec. 23	"	19W-2 1/4N	76971	300	300
Sec. 27	"	20W-1 5/8N	83560	300	300
Sec. 31	"	23 3/4W-ON	83586	644	644
T.2N., R.1W.	"				
Sec. 24	"	7/8W-8 3/4N	83551	923	923
Sec. 26	"	1 1/4W-7 3/4N	83552	600	600
T.1S., R.4W.					
Sec. 6	"	23 1/2W-5/8S	83574	1236	1236
T.1N., R.1E.					
Sec. 3	"	3E-6N	83624	850	850
T.1N., R.2E.					
Sec. 7	"	6E-5N	83648	790	790
Sec. 9	"	8E-4 1/4N	83632	300	300
Sec. 11	"	11E-5N	83655	383	383
Sec. 12	"	11E-4 1/4N	83642	302	302
T.2N., R.1E.					
Sec. 4	"	2 1/4E-12N	83604	800	800
Sec. 8	"	2E-11N	83606	790	790
T.3S., R.5E.					
Sec. 24	San Carlos Irrigation Project	69	83033	620	20-616
Sec. 28	"	53	83034	164	50-150
T.3S., R.6E.					
Sec. 31	"	67	83038	470	30-470
T.4S., R.4E.					
Sec. 1	"	123	83036	440	60-400
T.4S., R.5E.					
Sec. 10	"	51	83031	376	100-362
T.4S., R.6E.					
Sec. 23	"	47	83030	450	68-445
T.4S., R.7E.					
Sec. 28	"	86	83035	421	65-419
T.4S., R.9E.					
Sec. 26	"	10	83027	259	107-247
T.4S., R.10E.					
Sec. 16	"	12	83018	477	120-475
Sec. 28	"	1	83022	600	150-597
T.4S., R.11E.					
Sec. 7	"	6	83019	138	40-110
T.5S., R.7E.					
Sec. 22	"	52	83032	386	140-375
T.5S., R.8E.					
Sec. 1	"	13	83029	230	30-217
Sec. 7	"	33	83037	645	150-640
Sec. 10	"	50	83024	796	550-790
Sec. 23	"	23	83023	800	130-785
T.5S., R.9E.					
Sec. 12	"	110	83039	316	150-304
Sec. 26	"	25	83016	760	175-755
Sec. 30	"	17	83026	800	162-795
T.6S., R.6E.					
Sec. 34	"	102	83021	450	135-438
T.6S., R.7E.					
Sec. 31	"	116	83017	420	67-400
T.6S., R.8E.					
Sec. 28	"	81	83028	1165	180-1165
T.7S., R.6E.					
Sec. 1	"	91	83025	890	170-890
T.1N., R.1E.					
Sec. 9	Salt River Valley Water Users Association	2E-5N	22004	500	144-488
T.1N., R.2E.					
Sec. 24	"	11 1/2E-2N	21449	600	200-585
T.1N., R.3E.					
Sec. 1	"	18E-8N	-----	155	25-145
T.1N., R.4E.					
Sec. 11	"	22 3/4E-4 1/2N	22081	438	100-420
T.1N., R.5E.					
Sec. 11	"	28 1/4E-4 1/4N	21809	700	200-685
Sec. 35	"	28 1/2E-1N	21646	700	190-688
T.1N., R.6E.					
Sec. 17	"	31 1/2E-3 1/2N	21455	674	260-674
T.2N., R.1E.					
Sec. 15	"	3 1/2E-10N	21587	540	185-520
Sec. 36	"	6E-6 3/8N	21877	700	220-685
T.2N., R.2E.					
Sec. 3	"	10E-11 3/4N	21411	620	256-600
Sec. 27	"	9 1/2E-7 3/4N	21527	700	220-685
T.2N., R.3E.					
Sec. 7	"	12 1/2E-10N	-----	200	50-190
Sec. 36	"	18E-7N	20189	167	50-157
T.2N., R.4E.					
Sec. 25	"	2 3/4E-7 1/2N	22130	470	100-450
Sec. 35	"	22 1/2E-6N	21886	660	135-640
T.3N., R.1E.					
Sec. 1	"	5 3/8E-17N	21451	1440	250-1440
Sec. 26	"	5E-13 1/2N	21532	703	220-690
T.3N., R.2E.					
Sec. 20	"	8E-15N	22540	1195	630-1180
Sec. 26	"	10 1/2E-13 1/4N	21716	1386	312-1386
T.3N., R.3E.					
Sec. 30	"	12E-13 3/8N	21741	692	300-688
T.1S., R.4E.					
Sec. 3	"	21 1/2E-1S	21763	400	190-362
Sec. 36	"	23 1/4E-5S	22528	224	50-214
T.1S., R.5E.					
Sec. 4	"	26E-1S	21903	1000	400-900
Sec. 22	"	27E-4S	22006	800	185-785
Sec. 31	"	24E-5S	22188	225	60-200
T.1S., R.6E.					
Sec. 10	"	33 1/2E-1S	21993	450	160-431
Sec. 21	"	32 1/2E-3 1/2S	21551	1000	350-990
T.2S., R.5E.					
Sec. 4	"	27E-6 1/2S	21770	300	140-286
T.8S., R.22W.					
Sec. 33	Yuma Irrigation District	69	76339	151	110-125
$SE\frac{1}{4}$,$SW\frac{1}{4}$ Sec. 35	"	48	76337	179	100-175
$N\frac{1}{2}$ Sec. 26	"	43	76336	176	90-118
$SW\frac{1}{4}$ Sec. 26	"	41	76335	153	94-150
T.8S., R.23W.					
$NW\frac{1}{4}$,$NW\frac{1}{4}$ Sec. 26	"	2	76331	183	138-158